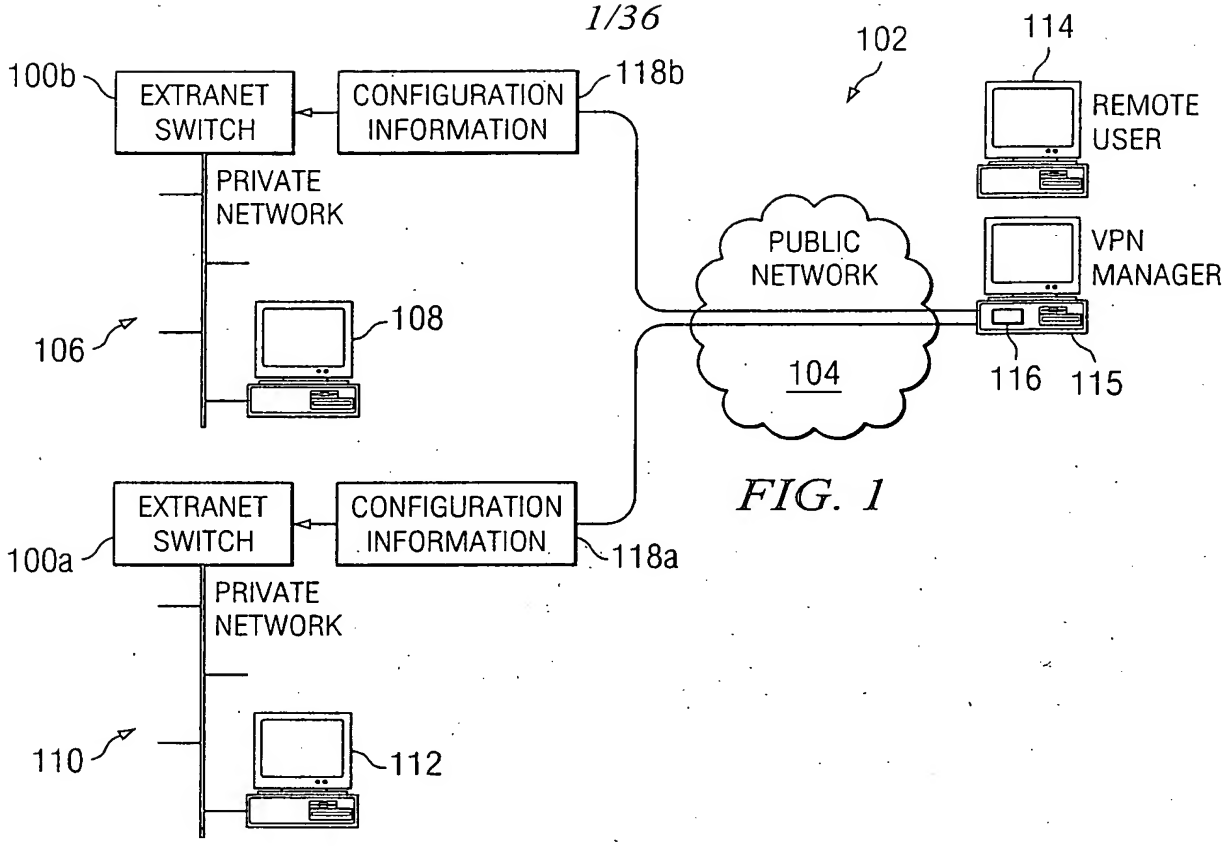

100b
EXTRANET SWITCH
CONFIGURATION INFORMATION
118b
102
114
REMOTE USER
PRIVATE NETWORK
PUBLIC NETWORK
VPN MANAGER
106
108
104
116
115
EXTRANET SWITCH
CONFIGURATION INFORMATION
100a
118a
PRIVATE NETWORK
110
112

FIG. 1

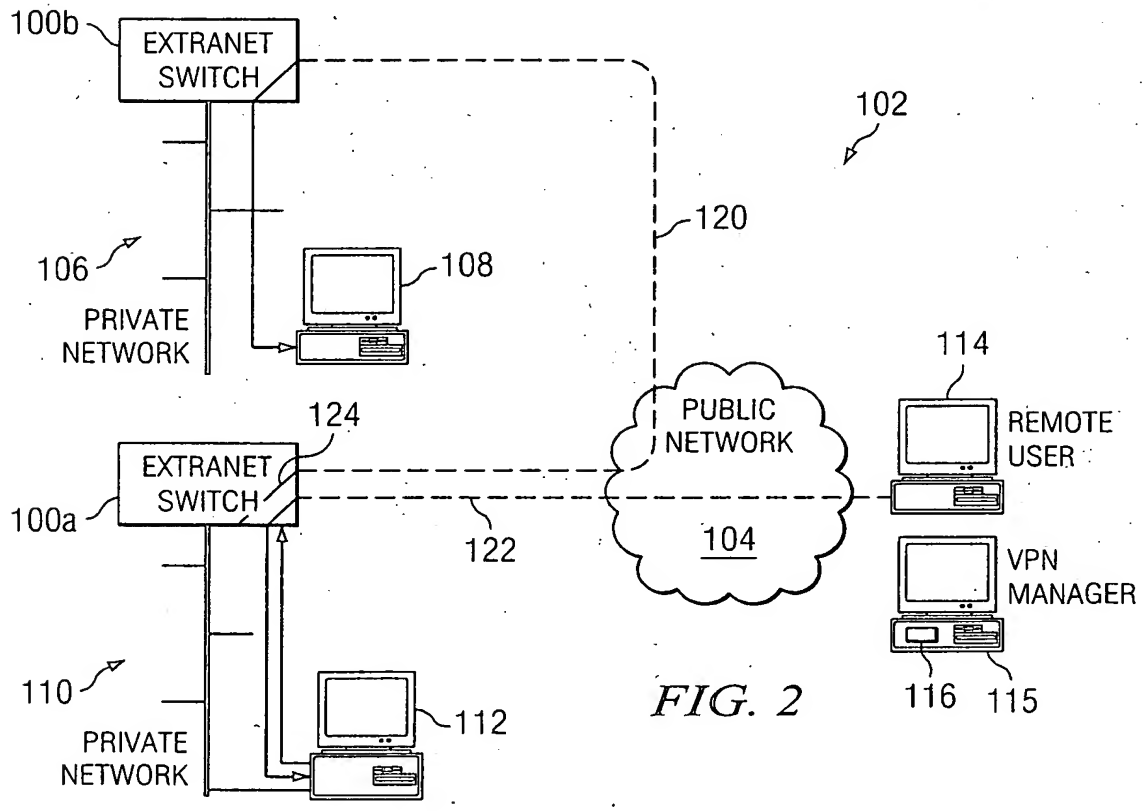

100b
EXTRANET SWITCH
102
120
106
108
PRIVATE NETWORK
114
124
PUBLIC NETWORK
REMOTE USER
EXTRANET SWITCH
100a
122
104
VPN MANAGER
110
112
PRIVATE NETWORK
116
115

FIG. 2

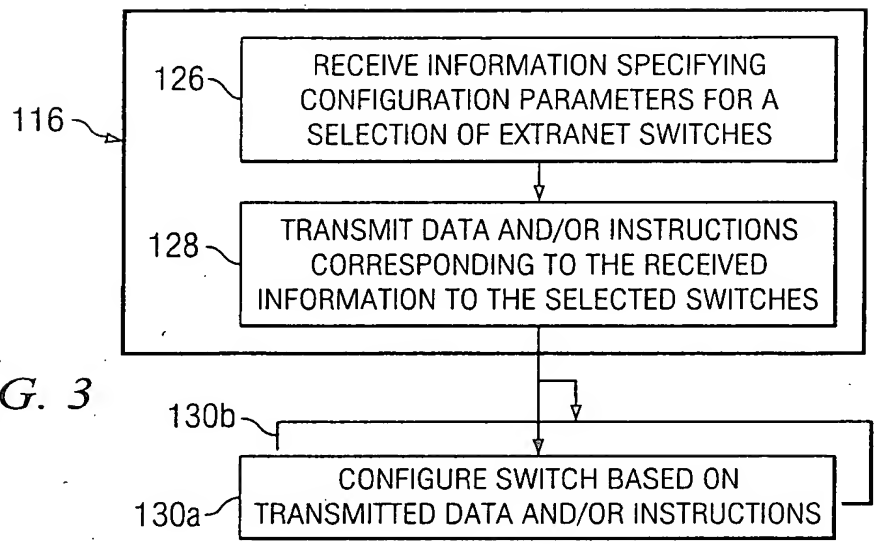

116
126
RECEIVE INFORMATION SPECIFYING CONFIGURATION PARAMETERS FOR A SELECTION OF EXTRANET SWITCHES
128
TRANSMIT DATA AND/OR INSTRUCTIONS CORRESPONDING TO THE RECEIVED INFORMATION TO THE SELECTED SWITCHES
130b
130a
CONFIGURE SWITCH BASED ON TRANSMITTED DATA AND/OR INSTRUCTIONS

FIG. 3

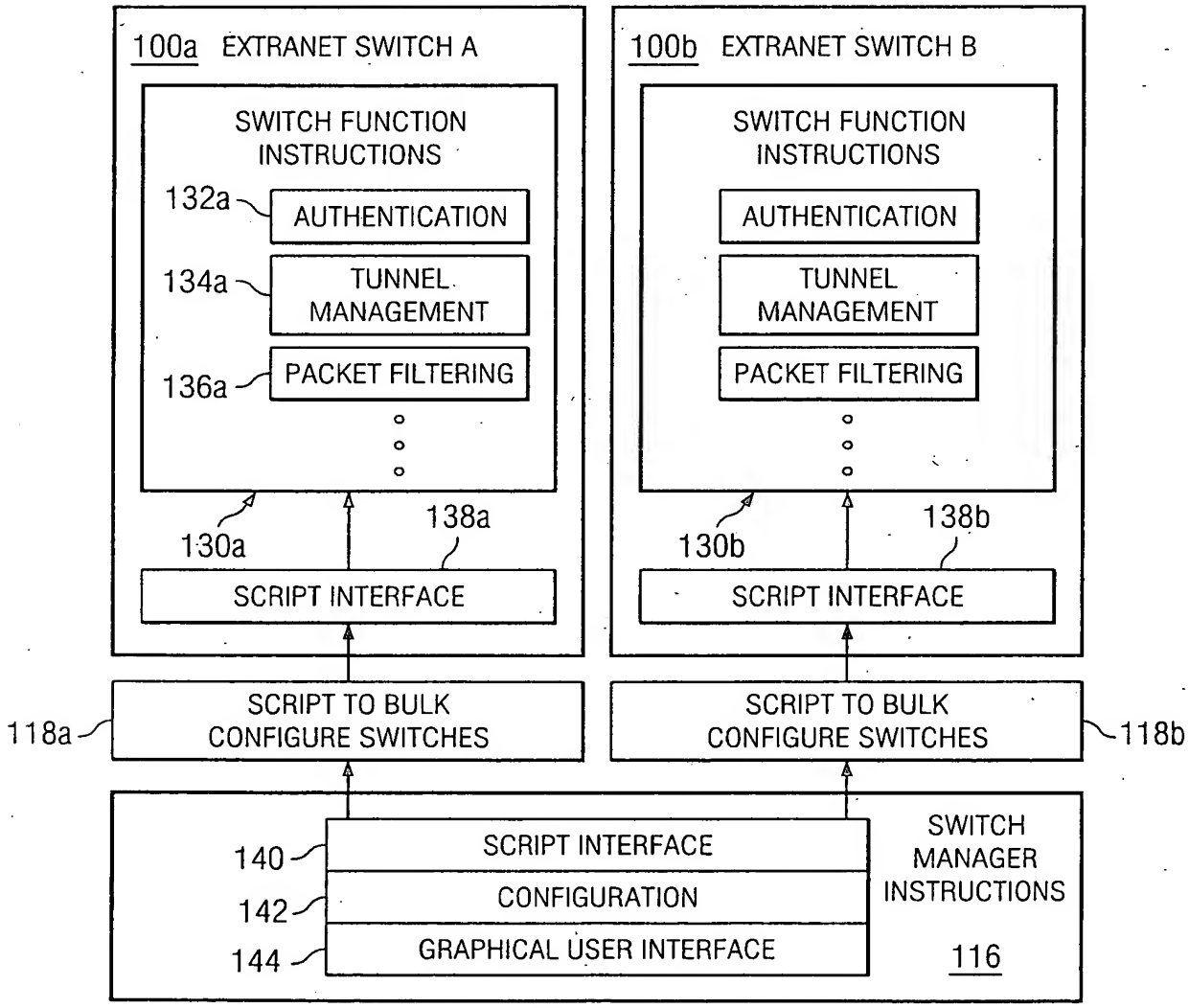

100a EXTRANET SWITCH A
SWITCH FUNCTION INSTRUCTIONS
132a
AUTHENTICATION
134a
TUNNEL MANAGEMENT
136a
PACKET FILTERING
130a
138a
SCRIPT INTERFACE
100b EXTRANET SWITCH B
SWITCH FUNCTION INSTRUCTIONS
AUTHENTICATION
TUNNEL MANAGEMENT
PACKET FILTERING
130b
138b
SCRIPT INTERFACE
118a
SCRIPT TO BULK CONFIGURE SWITCHES
SCRIPT TO BULK CONFIGURE SWITCHES
118b
140
SCRIPT INTERFACE
142
CONFIGURATION
144
GRAPHICAL USER INTERFACE
SWITCH MANAGER INSTRUCTIONS
116

FIG. 4

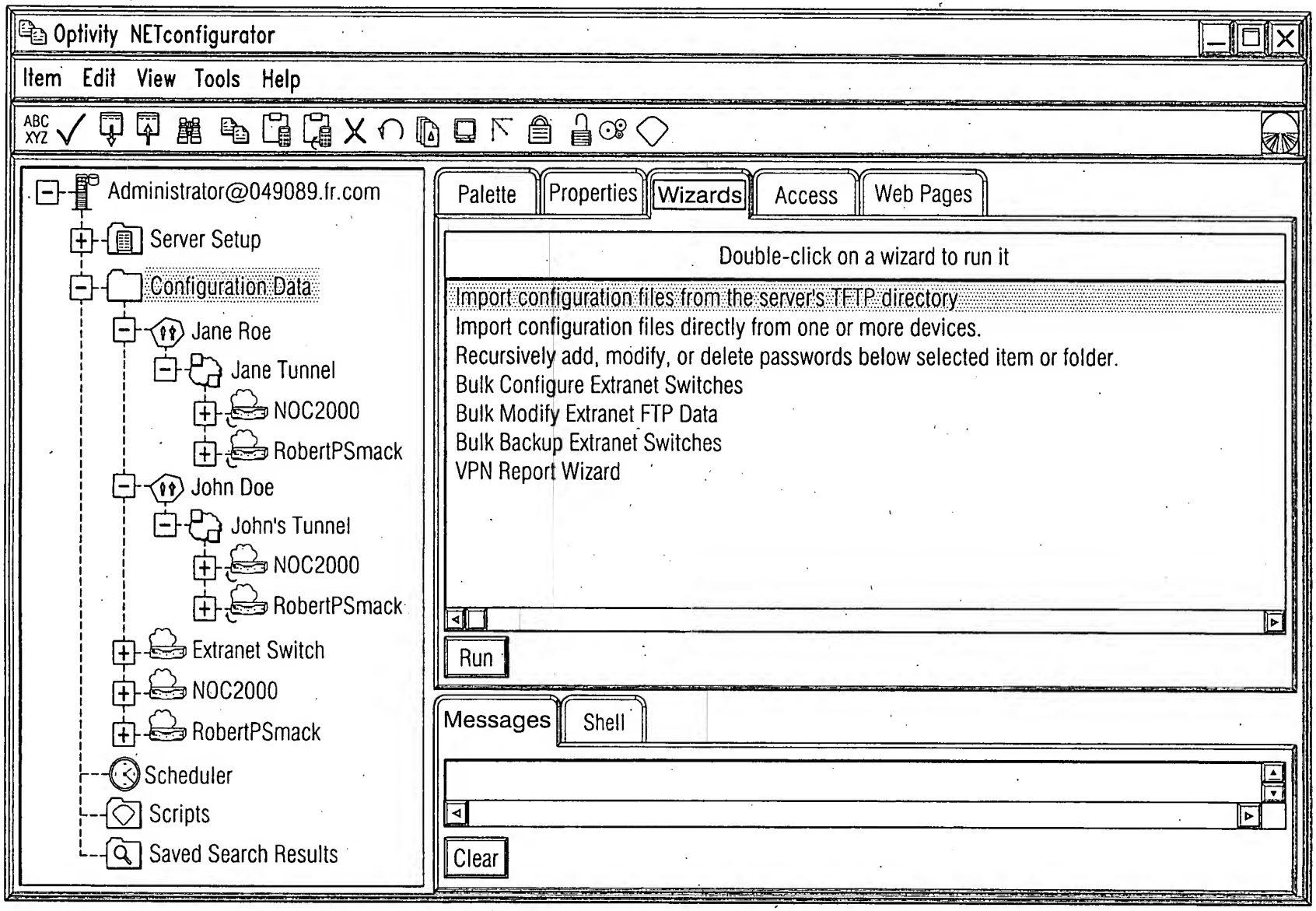

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
Jane Roe
Jane Tunnel
NOC2000
RobertPSmack
John Doe
John's Tunnel
NOC2000
RobertPSmack
Extranet Switch
NOC2000
RobertPSmack
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
Double-click on a wizard to run it
Import configuration files from the server's TFTP directory
Import configuration files directly from one or more devices.
Recursively add, modify, or delete passwords below selected item or folder.
Bulk Configure Extranet Switches
Bulk Modify Extranet FTP Data
Bulk Backup Extranet Switches
VPN Report Wizard
Run
Messages
Shell
Clear

FIG. 5

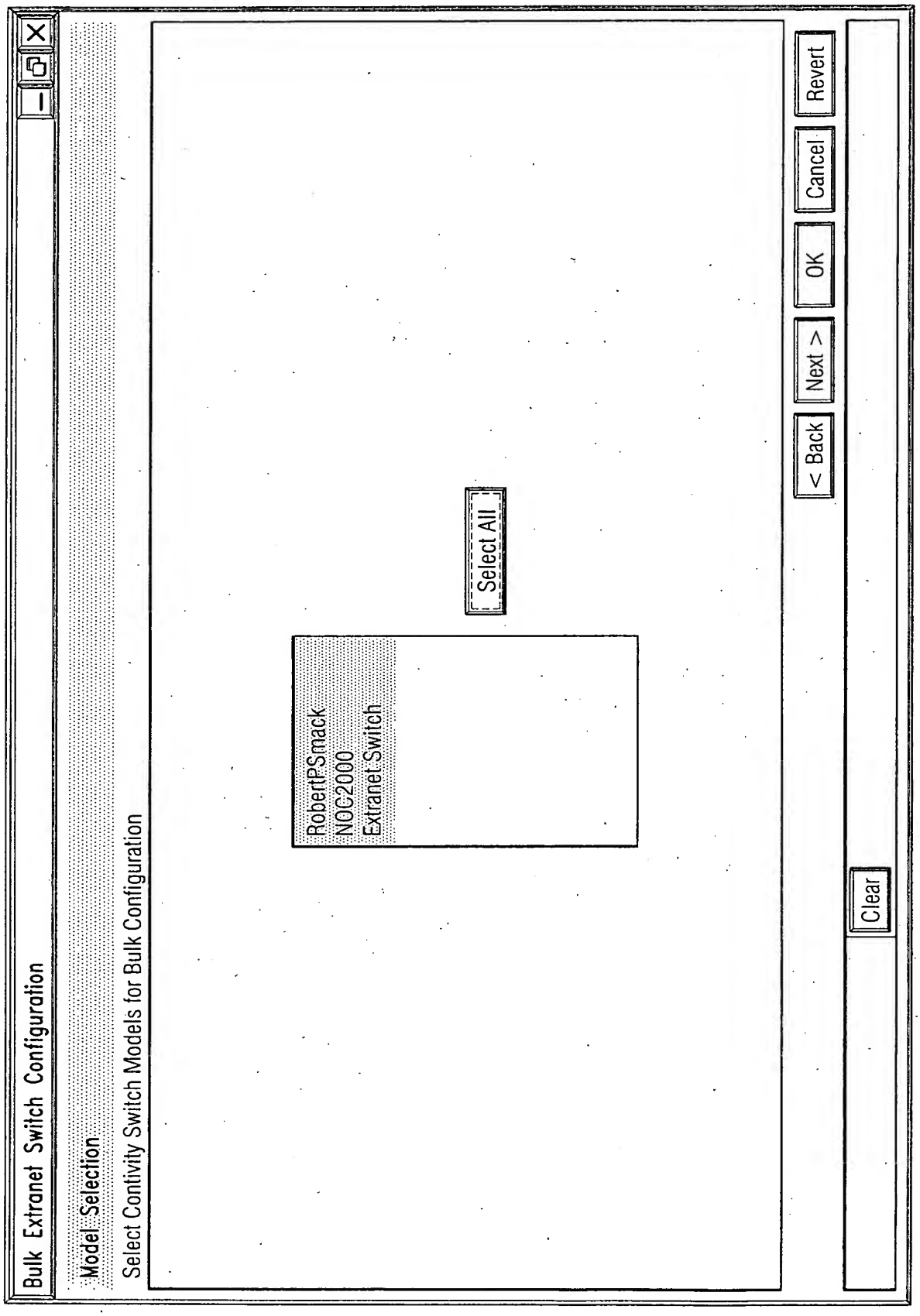

Bulk Extranet Switch Configuration
Model Selection
Select Contivity Switch Models for Bulk Configuration
RobertPSmack
NOC2000
Extranet Switch
Select All
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 6

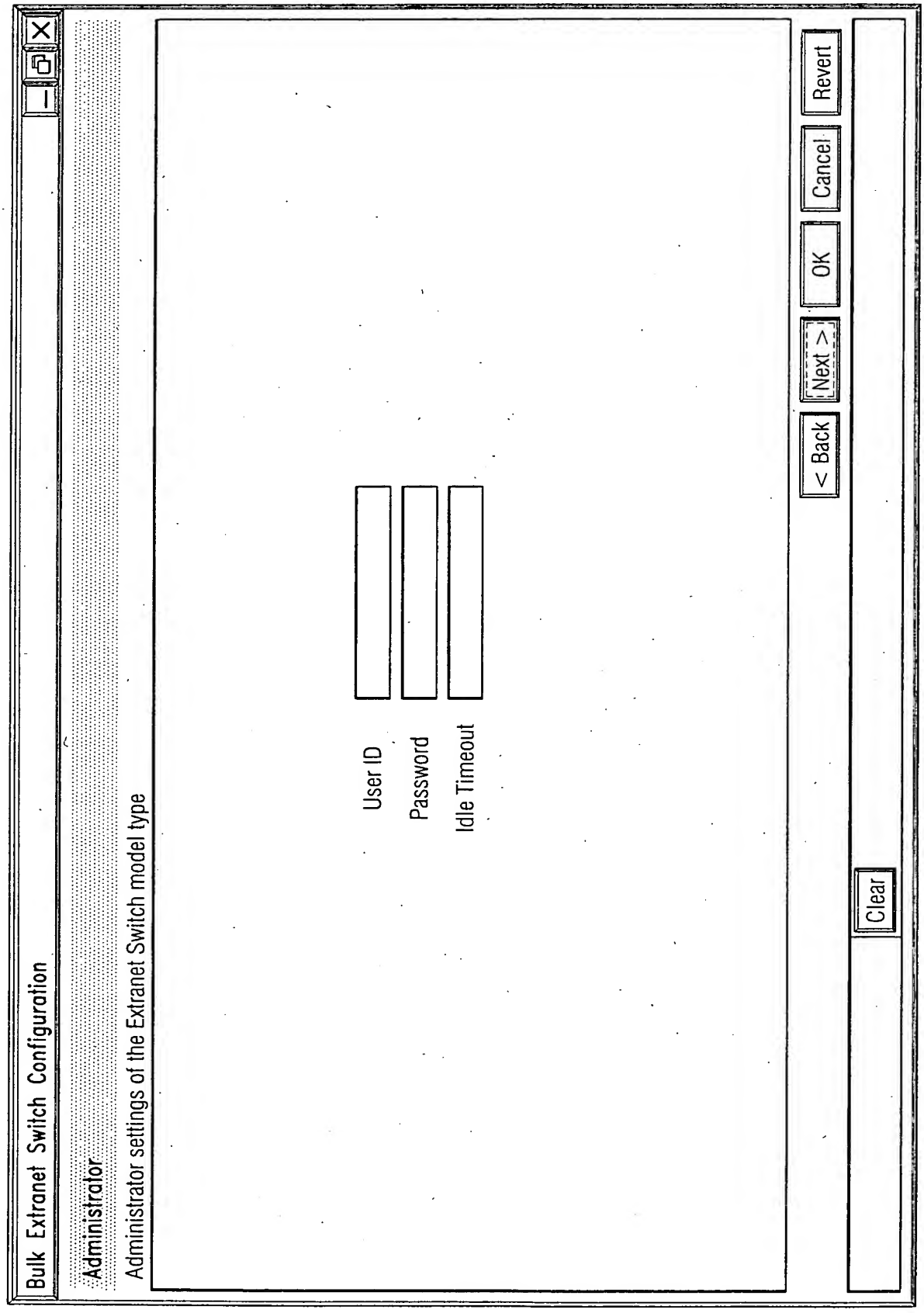

Bulk Extranet Switch Configuration
Administrator
Administrator settings of the Extranet Switch model type
User ID
Password
Idle Timeout
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 7

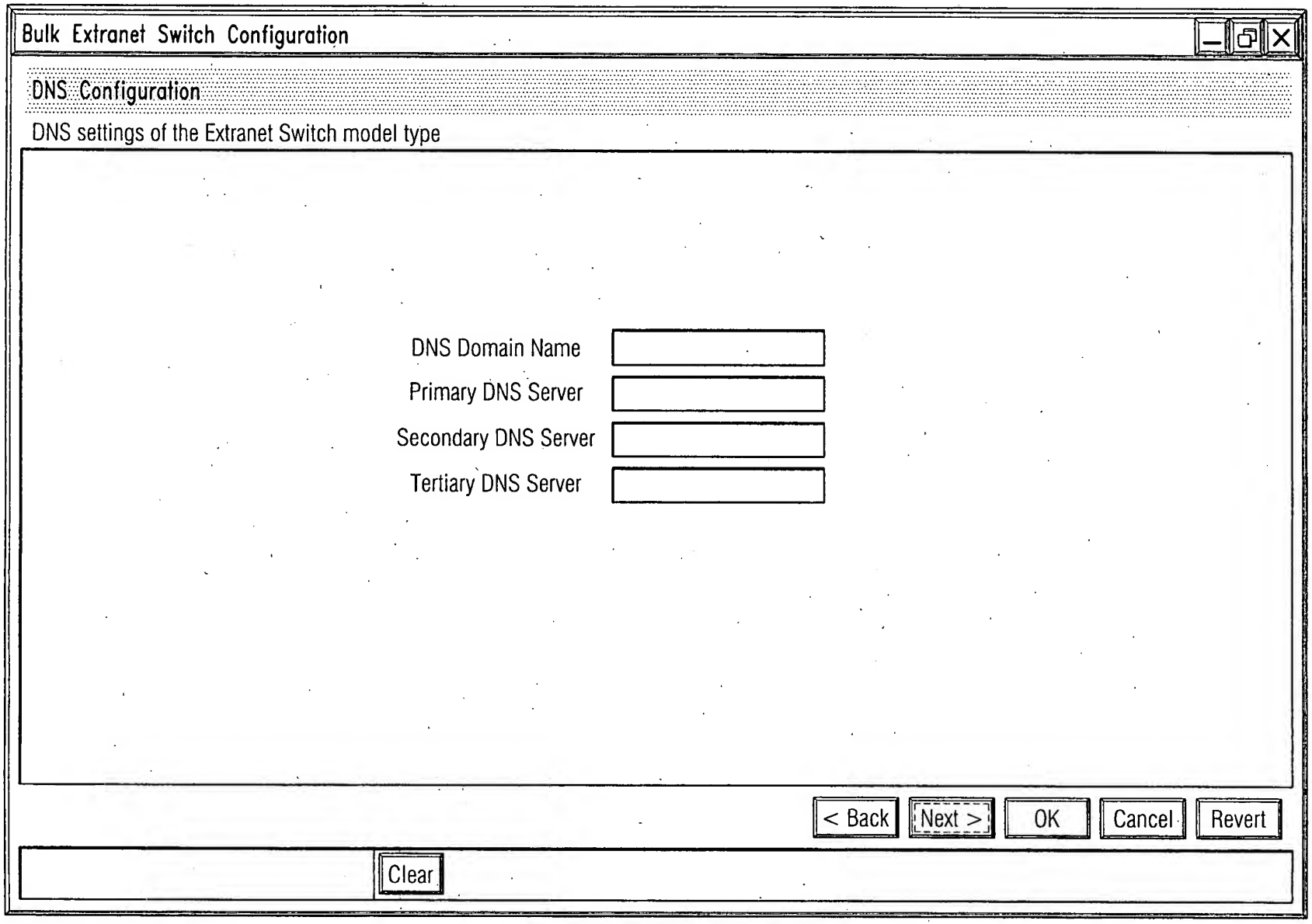

Bulk Extranet Switch Configuration
DNS Configuration
DNS settings of the Extranet Switch model type
DNS Domain Name
Primary DNS Server
Secondary DNS Server
Tertiary DNS Server
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 8

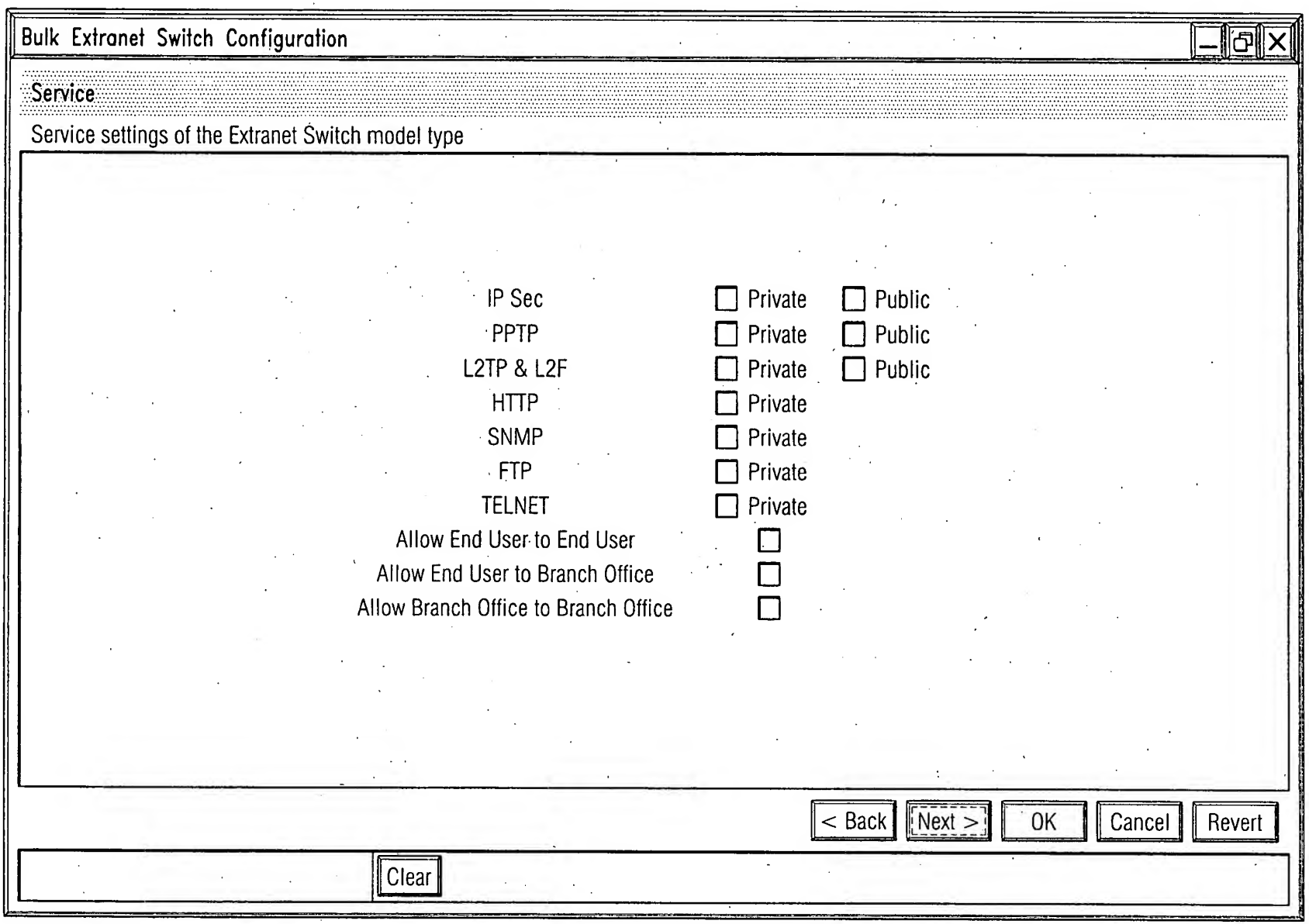

Bulk Extranet Switch Configuration
Service
Service settings of the Extranet Switch model type
IP Sec
Private
Public
PPTP
Private
Public
L2TP & L2F
Private
Public
HTTP
Private
SNMP
Private
FTP
Private
TELNET
Private
Allow End User to End User
Allow End User to Branch Office
Allow Branch Office to Branch Office
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 9

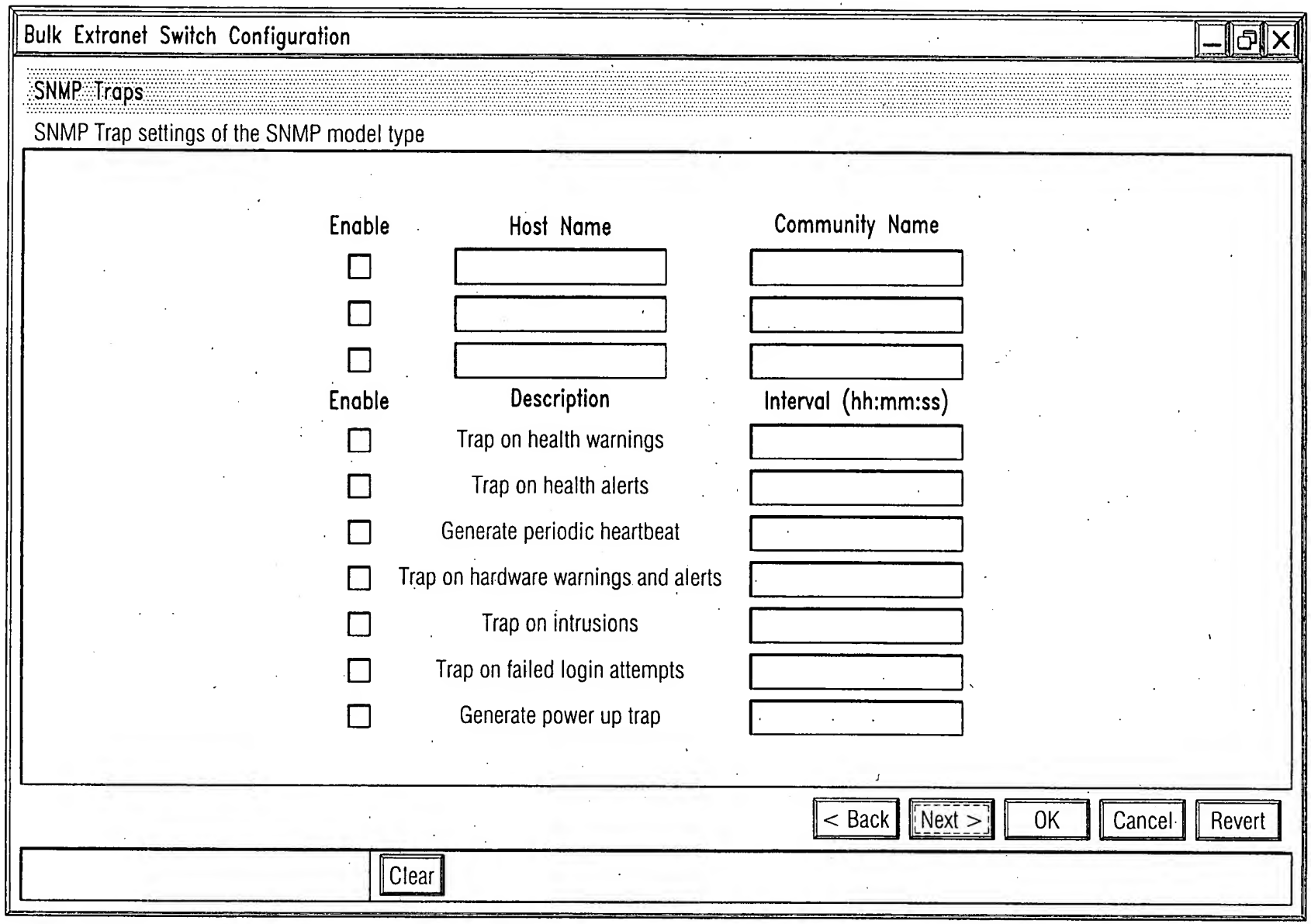

Bulk Extranet Switch Configuration
SNMP Traps
SNMP Trap settings of the SNMP model type
Enable
Host Name
Community Name
Enable
Description
Interval (hh:mm:ss)
Trap on health warnings
Trap on health alerts
Generate periodic heartbeat
Trap on hardware warnings and alerts
Trap on intrusions
Trap on failed login attempts
Generate power up trap
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 10

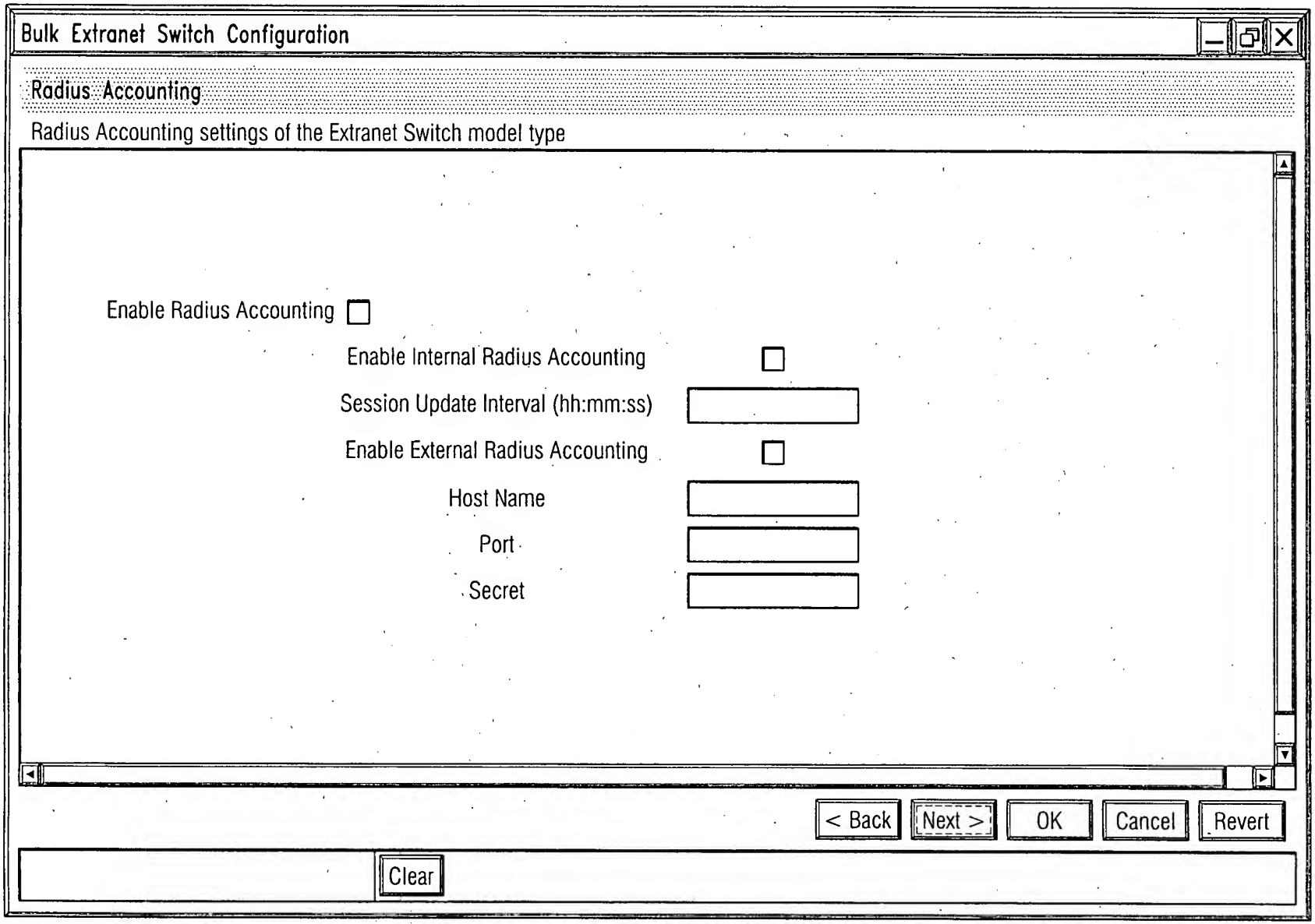

Bulk Extranet Switch Configuration
Radius Accounting
Radius Accounting settings of the Extranet Switch model type
Enable Radius Accounting
Enable Internal Radius Accounting
Session Update Interval (hh:mm:ss)
Enable External Radius Accounting
Host Name
Port
Secret
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 11

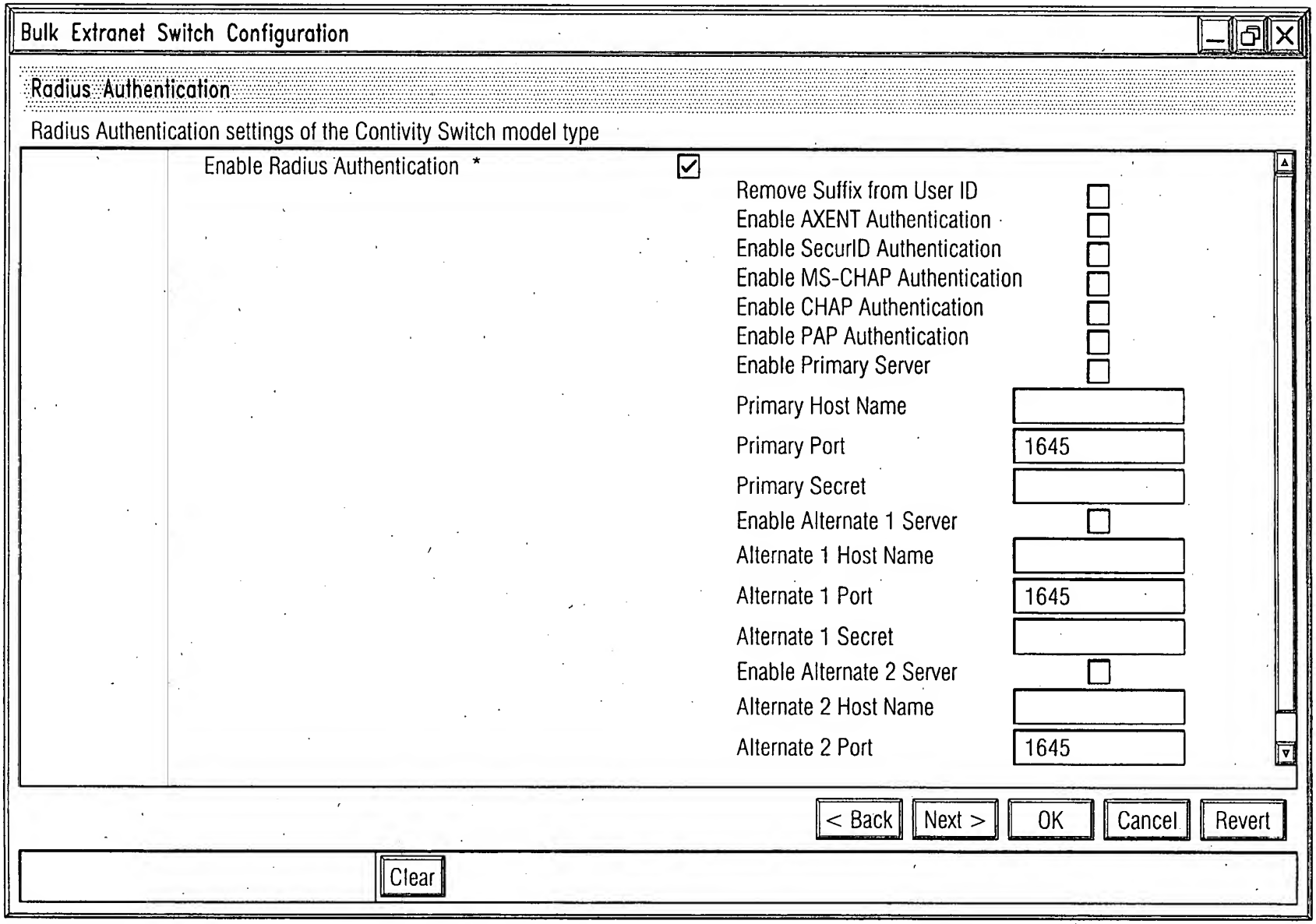

Bulk Extranet Switch Configuration
Radius Authentication
Radius Authentication settings of the Contivity Switch model type
Enable Radius Authentication *
Remove Suffix from User ID
Enable AXENT Authentication
Enable SecurID Authentication
Enable MS-CHAP Authentication
Enable CHAP Authentication
Enable PAP Authentication
Enable Primary Server
Primary Host Name
Primary Port
1645
Primary Secret
Enable Alternate 1 Server
Alternate 1 Host Name
Alternate 1 Port
1645
Alternate 1 Secret
Enable Alternate 2 Server
Alternate 2 Host Name
Alternate 2 Port
1645
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 12

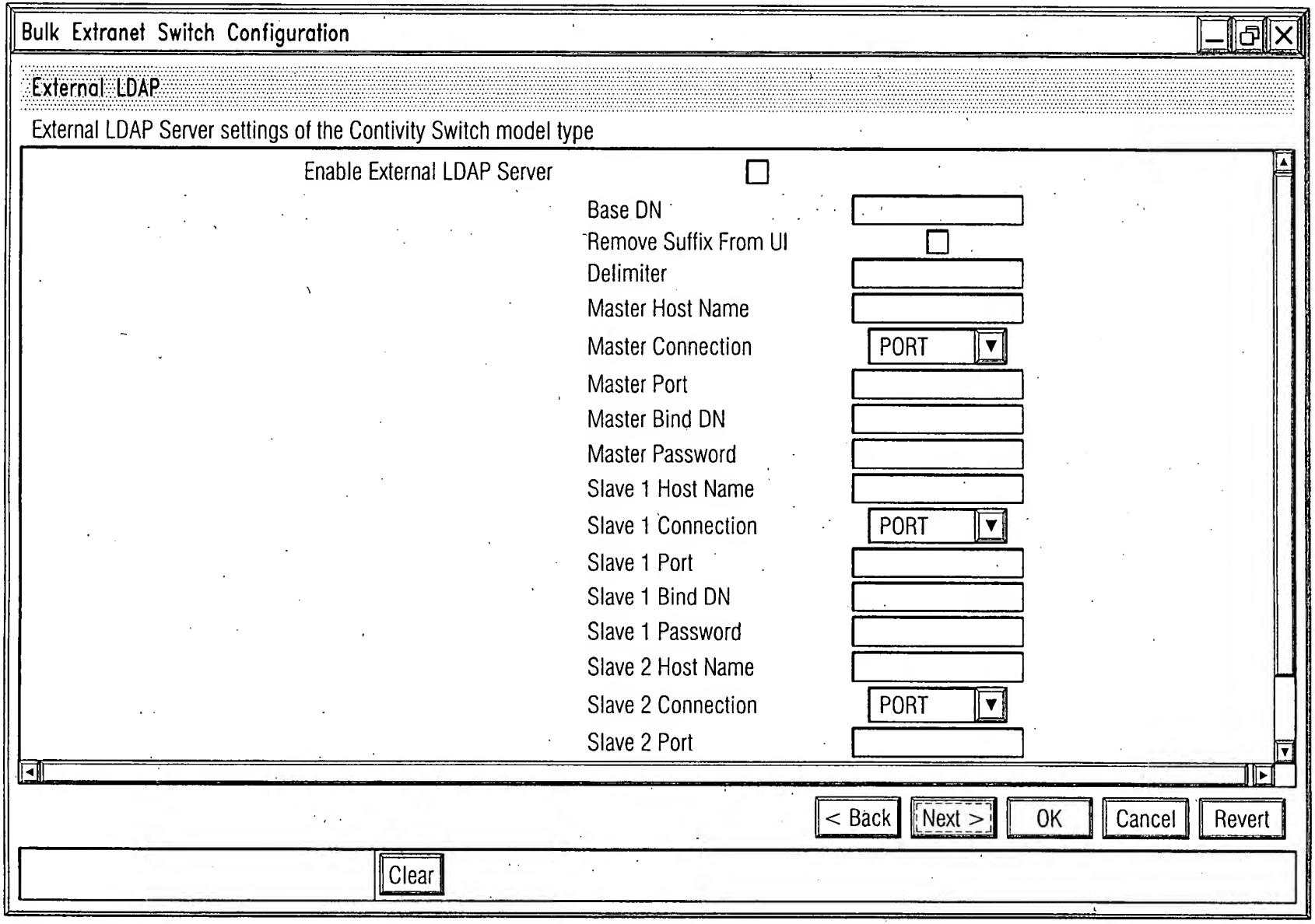

Bulk Extranet Switch Configuration
External LDAP
External LDAP Server settings of the Contivity Switch model type
Enable External LDAP Server
Base DN
Remove Suffix From UI
Delimiter
Master Host Name
Master Connection
PORT
Master Port
Master Bind DN
Master Password
Slave 1 Host Name
Slave 1 Connection
PORT
Slave 1 Port
Slave 1 Bind DN
Slave 1 Password
Slave 2 Host Name
Slave 2 Connection
PORT
Slave 2 Port
< Back
Next >
OK
Cancel
Revert
Clear

FIG. 13

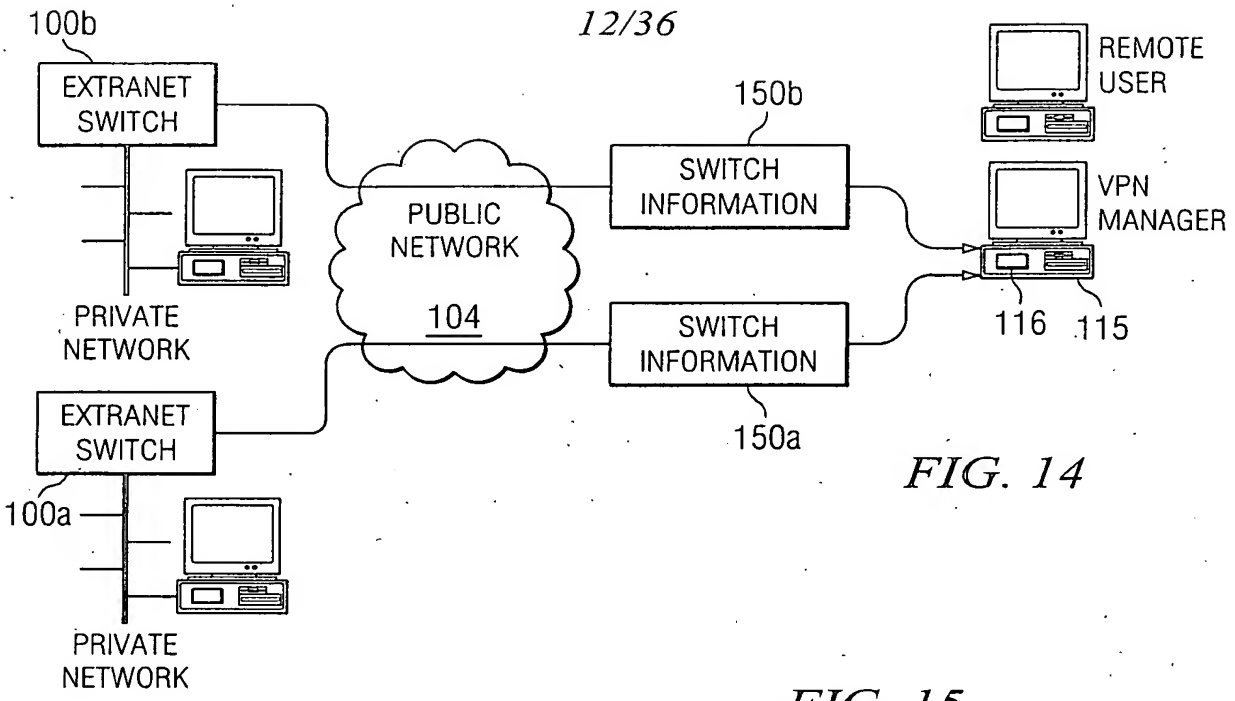
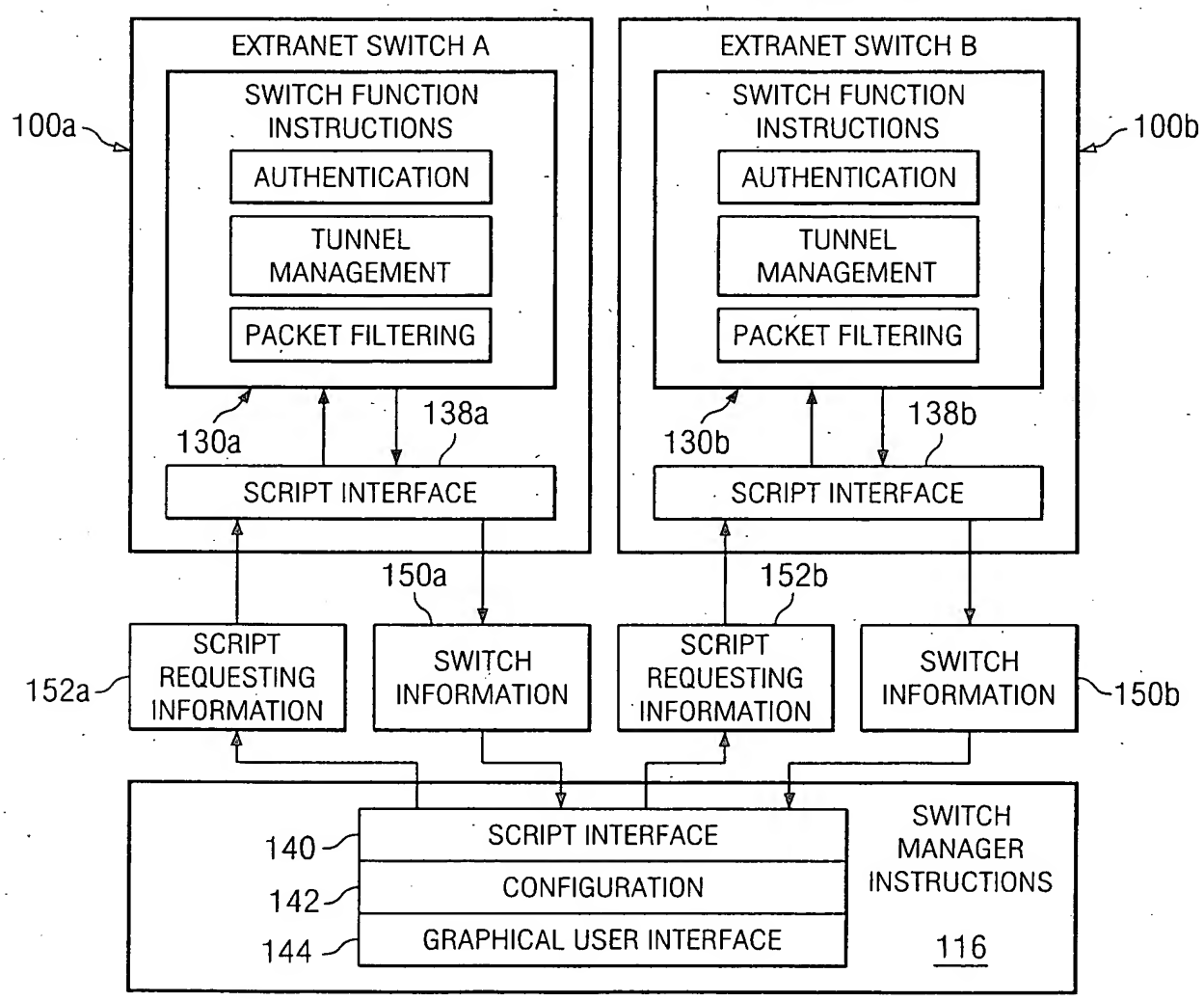

100b
EXTRANET SWITCH
PRIVATE NETWORK
PUBLIC NETWORK
104
150b
SWITCH INFORMATION
SWITCH INFORMATION
150a
REMOTE USER
VPN MANAGER
116
115
EXTRANET SWITCH
100a
PRIVATE NETWORK

FIG. 14

FIG. 15


EXTRANET SWITCH A
SWITCH FUNCTION INSTRUCTIONS
AUTHENTICATION
TUNNEL MANAGEMENT
PACKET FILTERING
100a
130a
138a
SCRIPT INTERFACE
EXTRANET SWITCH B
SWITCH FUNCTION INSTRUCTIONS
AUTHENTICATION
TUNNEL MANAGEMENT
PACKET FILTERING
100b
130b
138b
SCRIPT INTERFACE
150a
152b
152a
SCRIPT REQUESTING INFORMATION
SWITCH INFORMATION
SCRIPT REQUESTING INFORMATION
SWITCH INFORMATION
150b
140
SCRIPT INTERFACE
142
CONFIGURATION
144
GRAPHICAL USER INTERFACE
SWITCH MANAGER INSTRUCTIONS
116

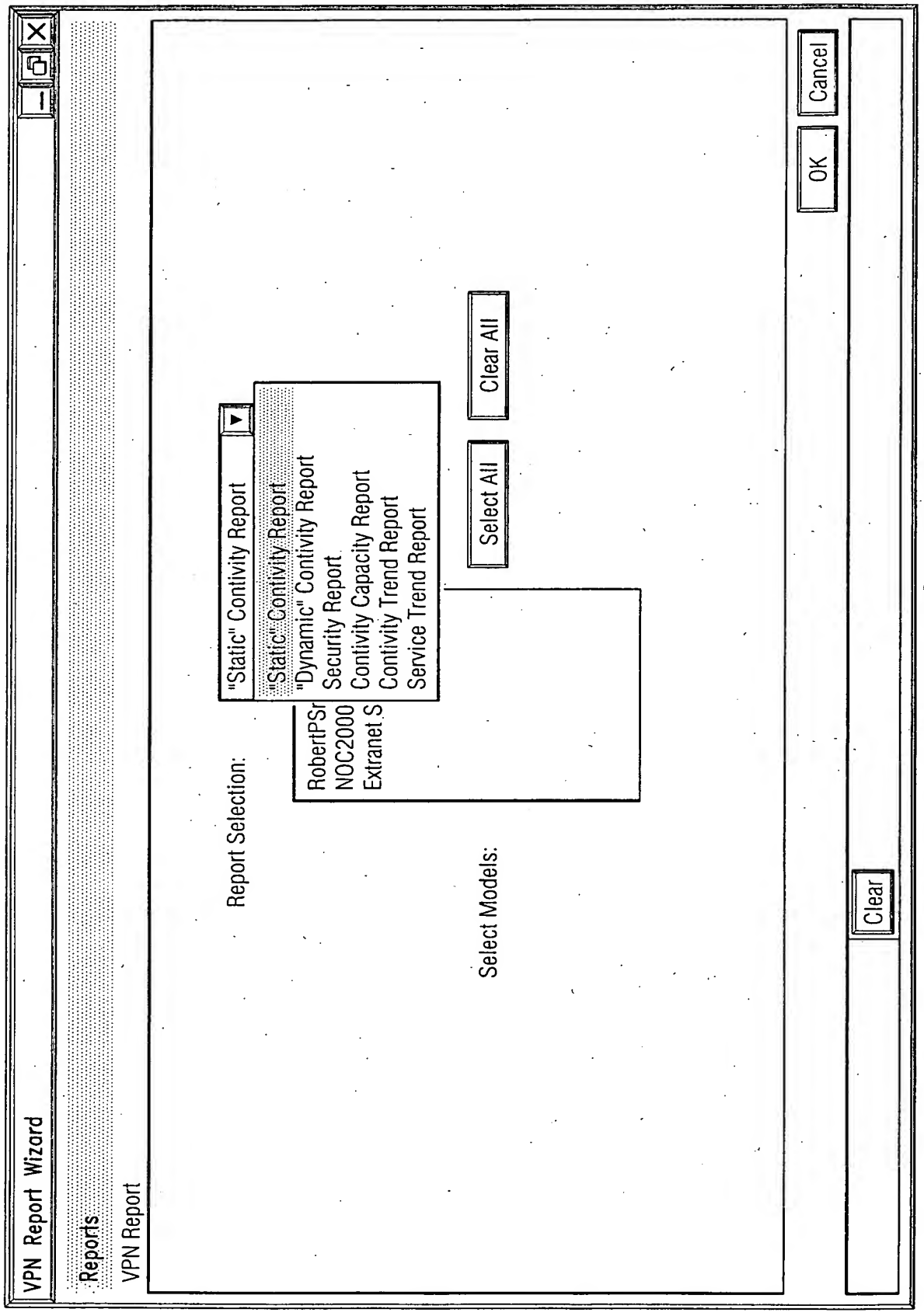

VPN Report Wizard
Reports
VPN Report
Report Selection:
"Static" Contivity Report
"Static" Contivity Report
"Dynamic" Contivity Report
Security Report
Contivity Capacity Report
Contivity Trend Report
Service Trend Report
RobertPSr
NOC2000
Extranet S
Select Models:
Select All
Clear All
Clear
OK
Cancel

FIG. 16

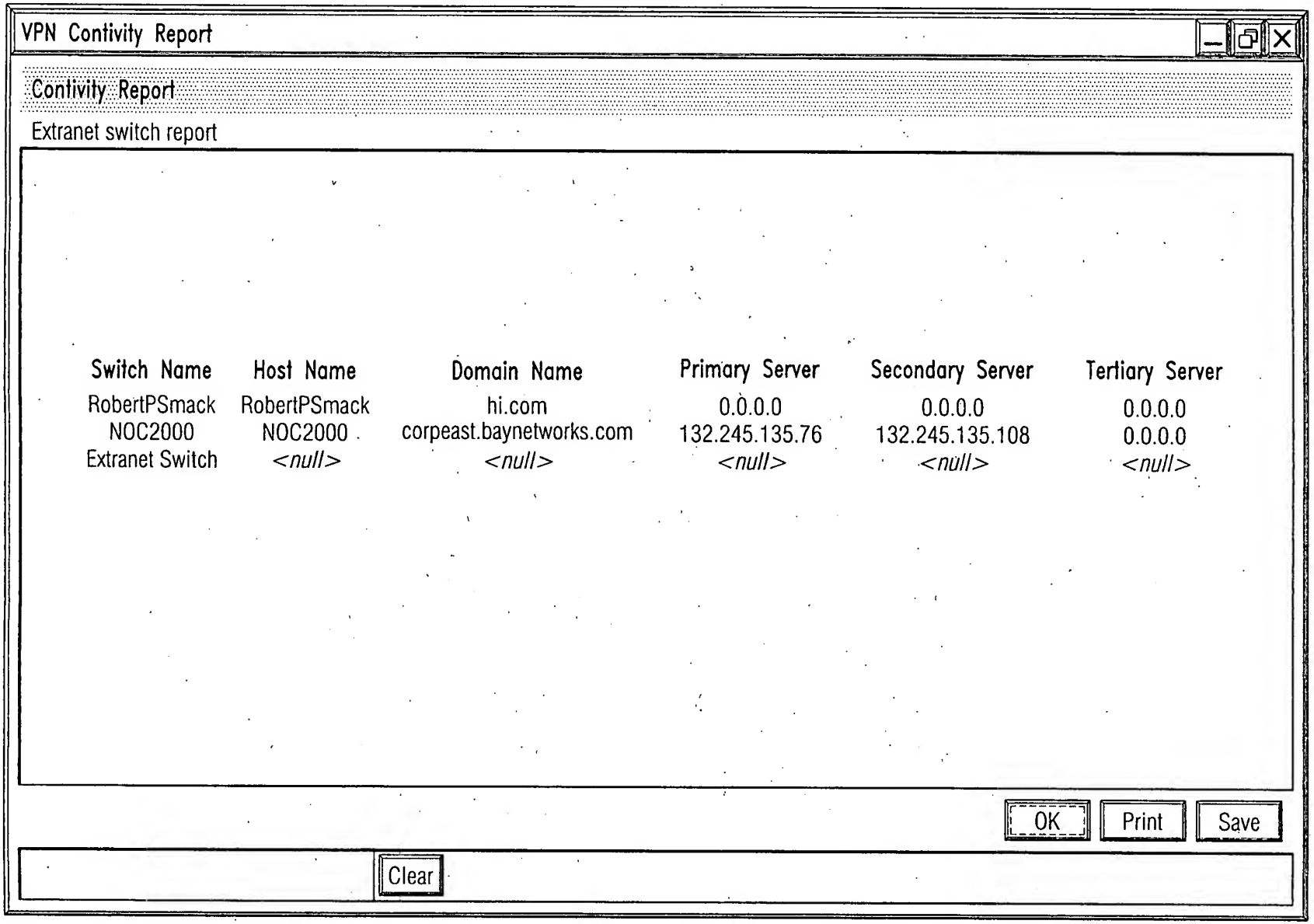

VPN Contivity Report
Contivity Report
Extranet switch report
Switch Name
Host Name
Domain Name
Primary Server
Secondary Server
Tertiary Server
RobertPSmack NOC2000 Extranet Switch
RobertPSmack NOC2000 <null>
hi.com corpeast.baynetworks.com <null>
0.0.0.0 132.245.135.76 <null>
0.0.0.0 132.245.135.108 <null>
0.0.0.0 0.0.0.0 <null>
OK
Print
Save
Clear

FIG. 17

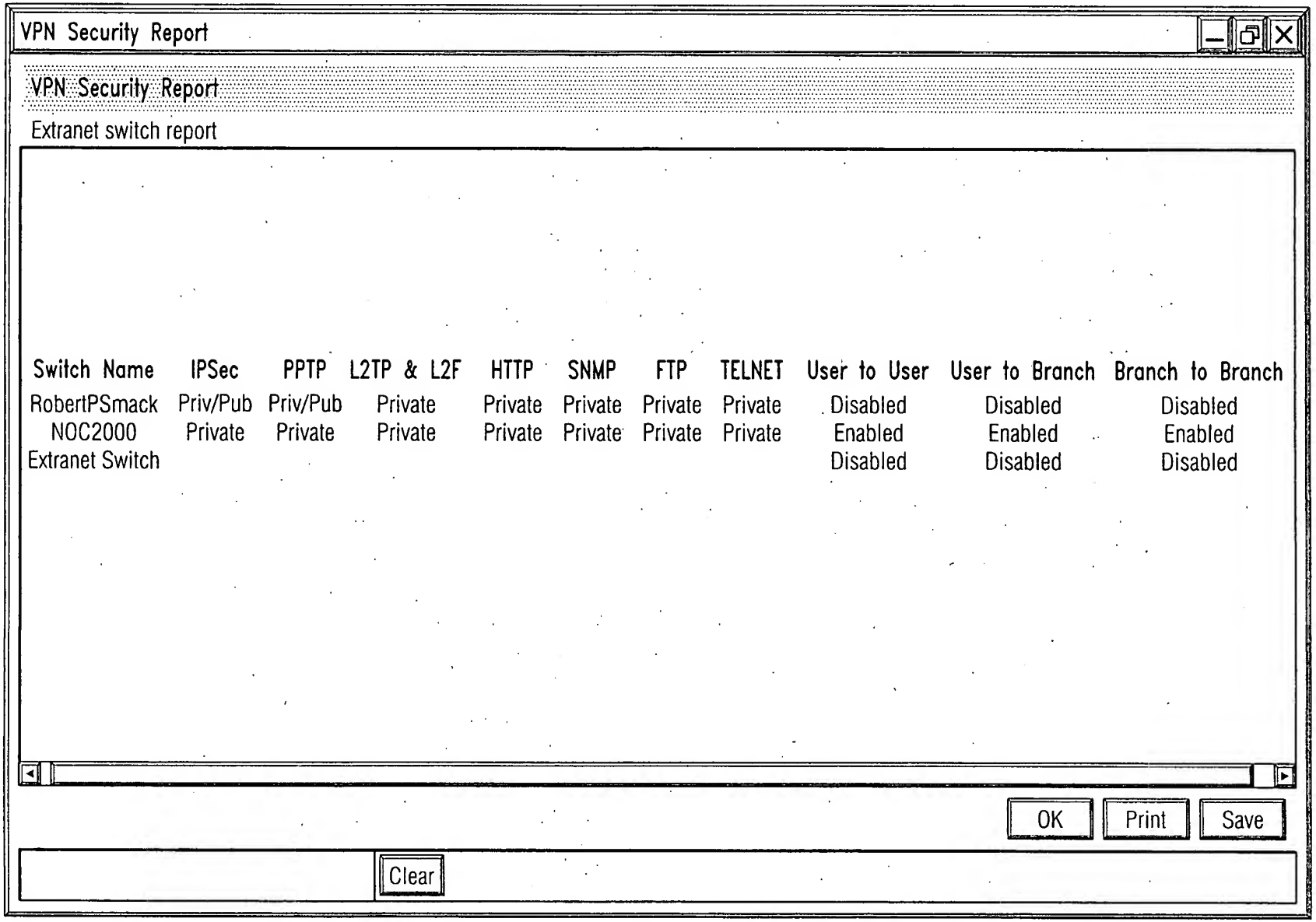

VPN Security Report
VPN Security Report
Extranet switch report
Switch Name IPSec PPTP L2TP & L2F HTTP SNMP FTP TELNET User to User User to Branch Branch to Branch
RobertPSmack Priv/Pub Priv/Pub Private Private Private Private Private Disabled Disabled Disabled
NOC2000 Private Private Private Private Private Private Private Enabled Enabled Enabled
Extranet Switch Disabled Disabled Disabled
OK
Print
Save
Clear

FIG. 18

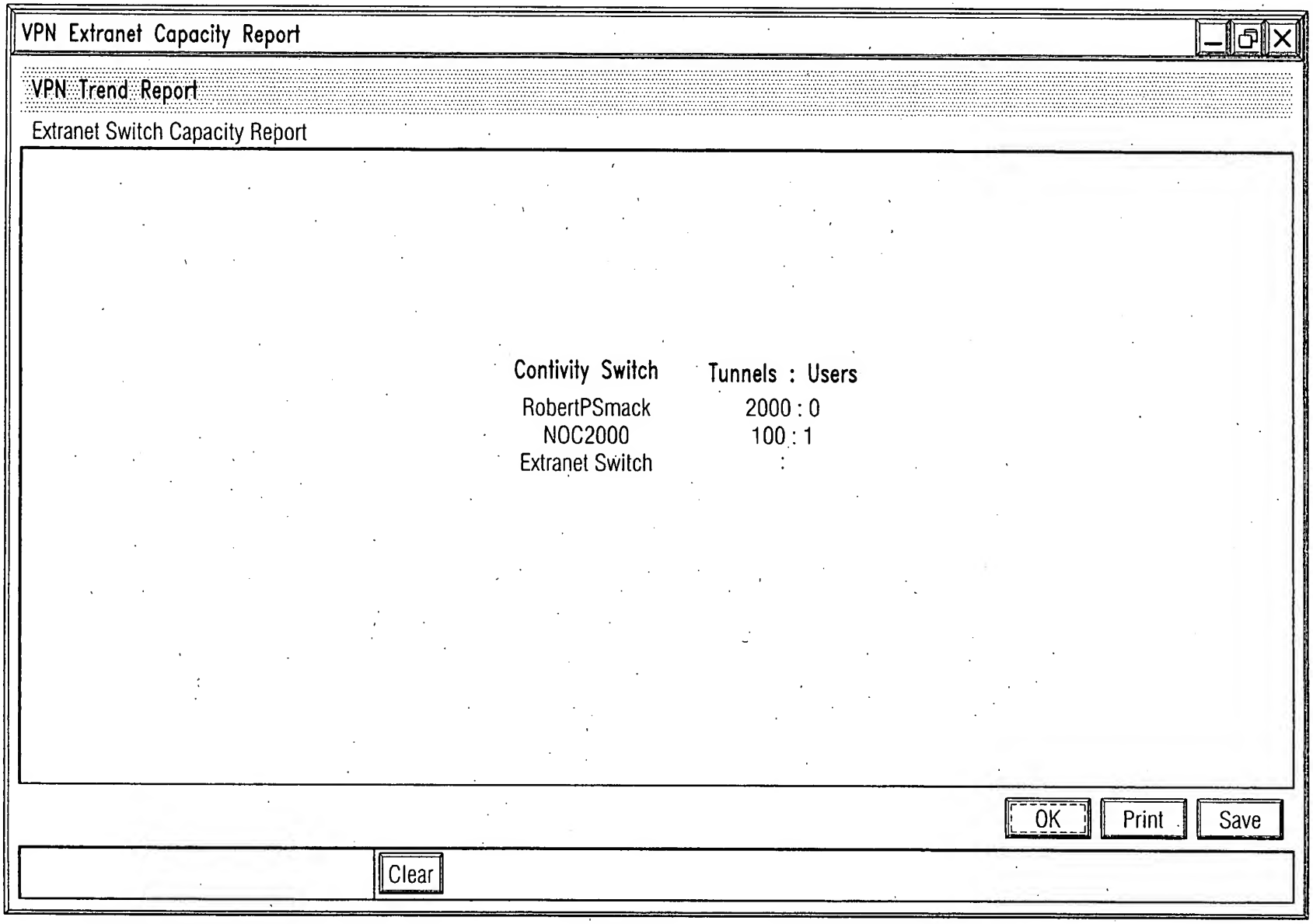

VPN Extranet Capacity Report
VPN Trend Report
Extranet Switch Capacity Report
Contivity Switch
Tunnels : Users
RobertPSmack
2000 : 0
NOC2000
100 : 1
Extranet Switch
:
OK
Print
Save
Clear

FIG. 19

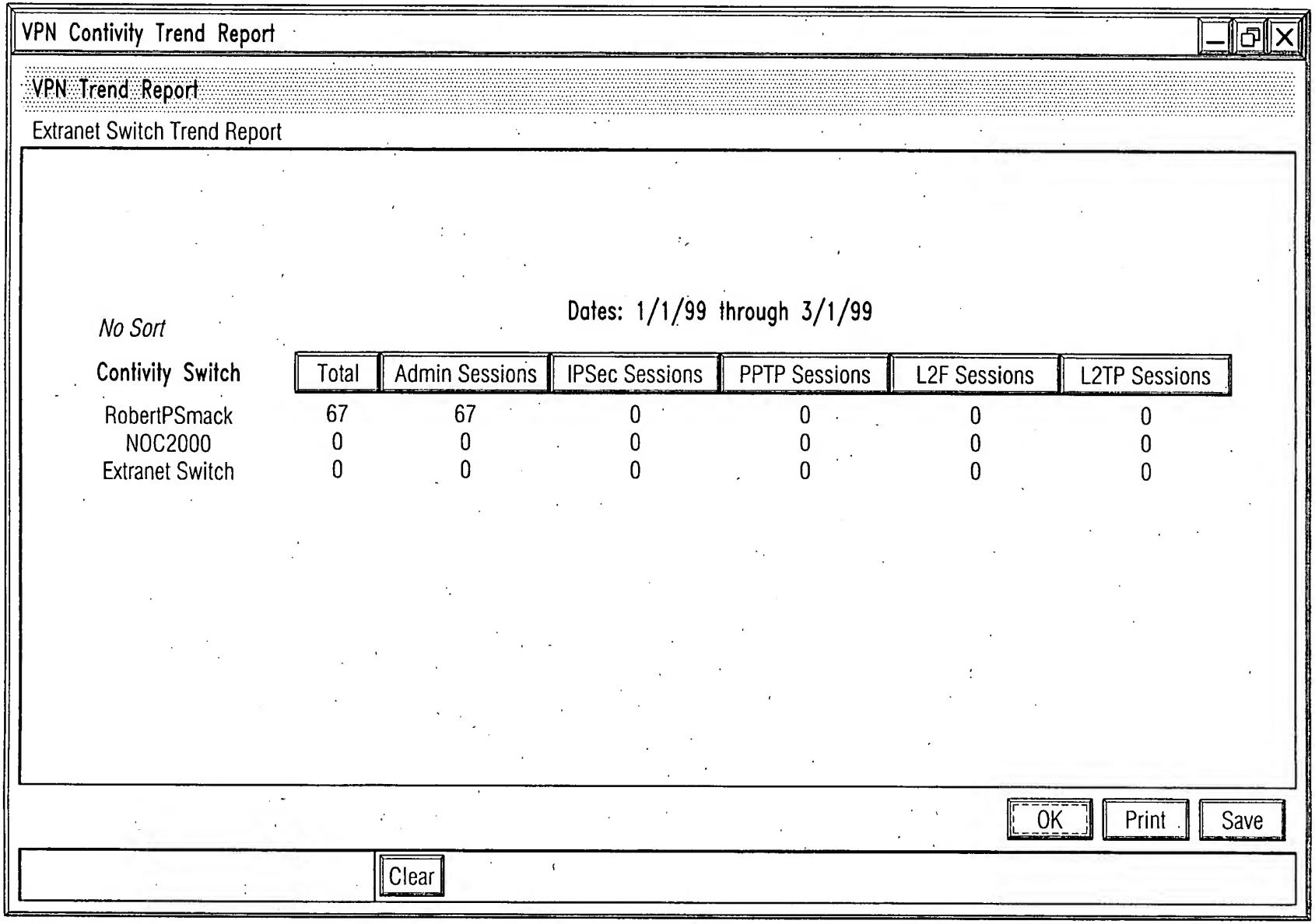

VPN Contivity Trend Report
VPN Trend Report
Extranet Switch Trend Report
Dates: 1/1/99 through 3/1/99
No Sort
Contivity Switch
Total
Admin Sessions
IPSec Sessions
PPTP Sessions
L2F Sessions
L2TP Sessions
RobertPSmack 67 67 0 0 0 0
NOC2000 0 0 0 0 0 0
Extranet Switch 0 0 0 0 0 0
OK
Print
Save
Clear

FIG. 20

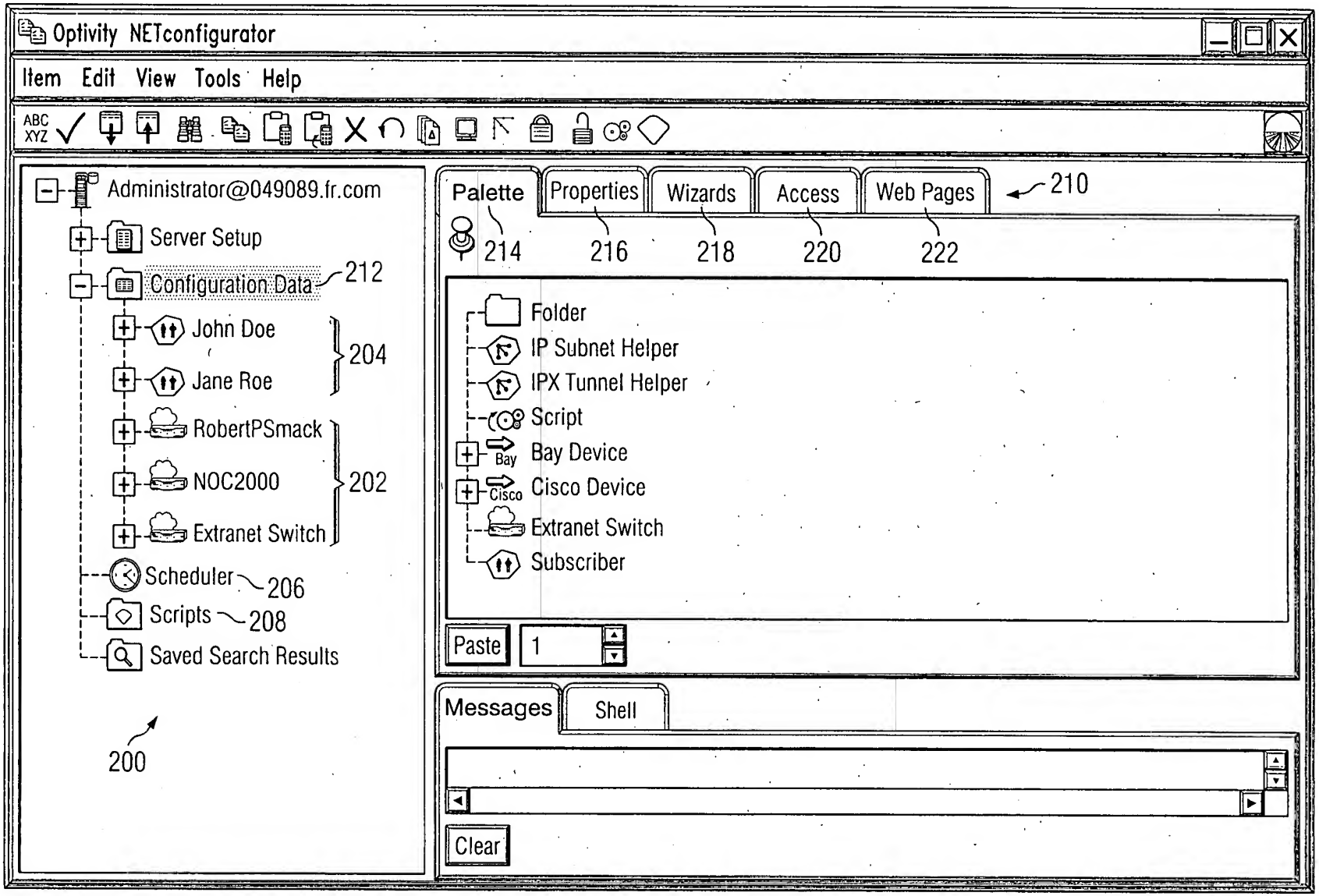

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
212
John Doe
Jane Roe
204
RobertPSmack
NOC2000
Extranet Switch
202
Scheduler
206
Scripts
208
Saved Search Results
200
Palette
Properties
Wizards
Access
Web Pages
210
214
216
218
220
222
Folder
IP Subnet Helper
IPX Tunnel Helper
Script
Bay Device
Cisco Device
Extranet Switch
Subscriber
Paste
1
Messages
Shell
Clear

FIG. 21

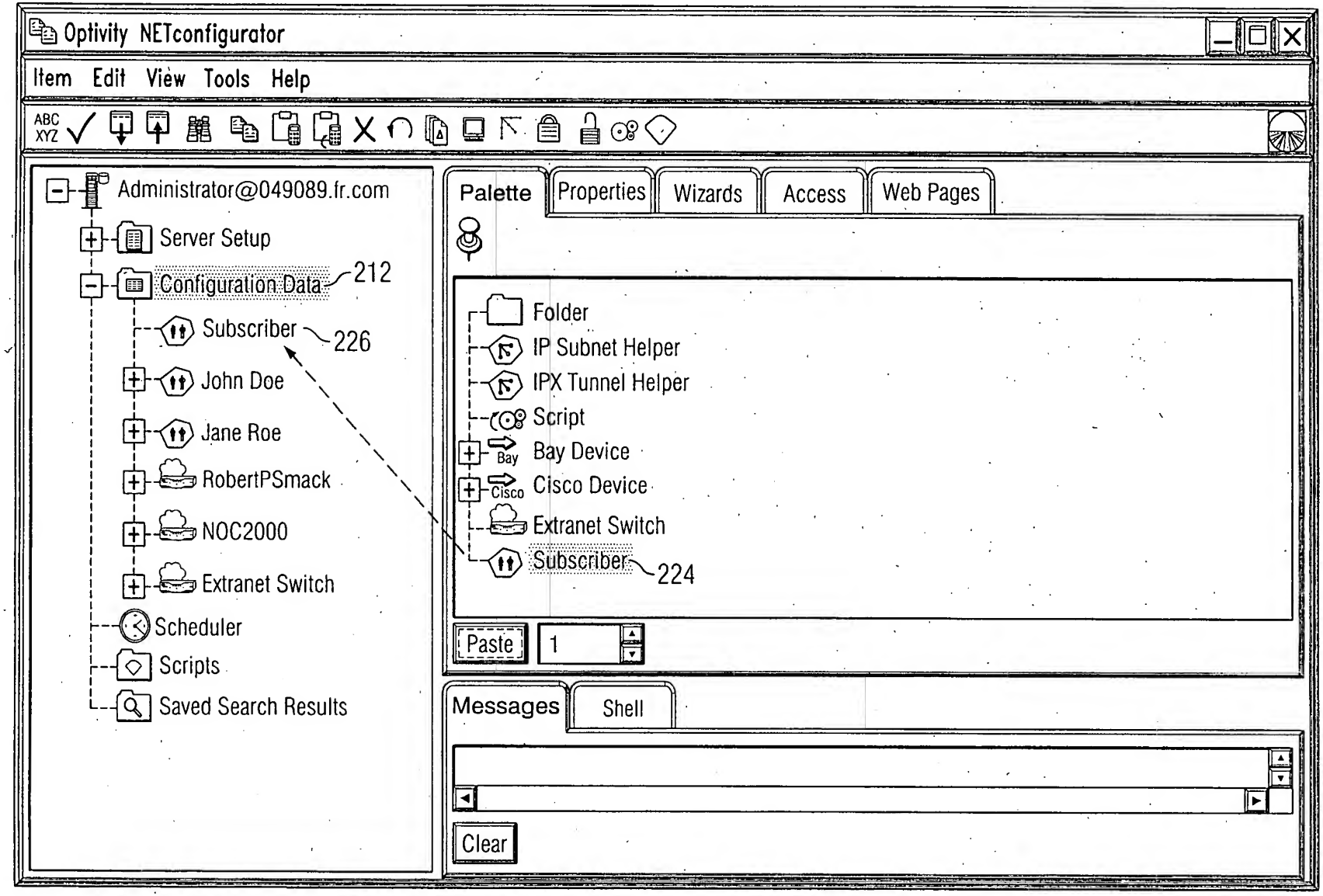

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
212
Subscriber
226
John Doe
Jane Roe
RobertPSmack
NOC2000
Extranet Switch
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
Folder
IP Subnet Helper
IPX Tunnel Helper
Script
Bay
Bay Device
Cisco
Cisco Device
Extranet Switch
Subscriber
224
Paste
1
Messages
Shell
Clear

FIG. 22

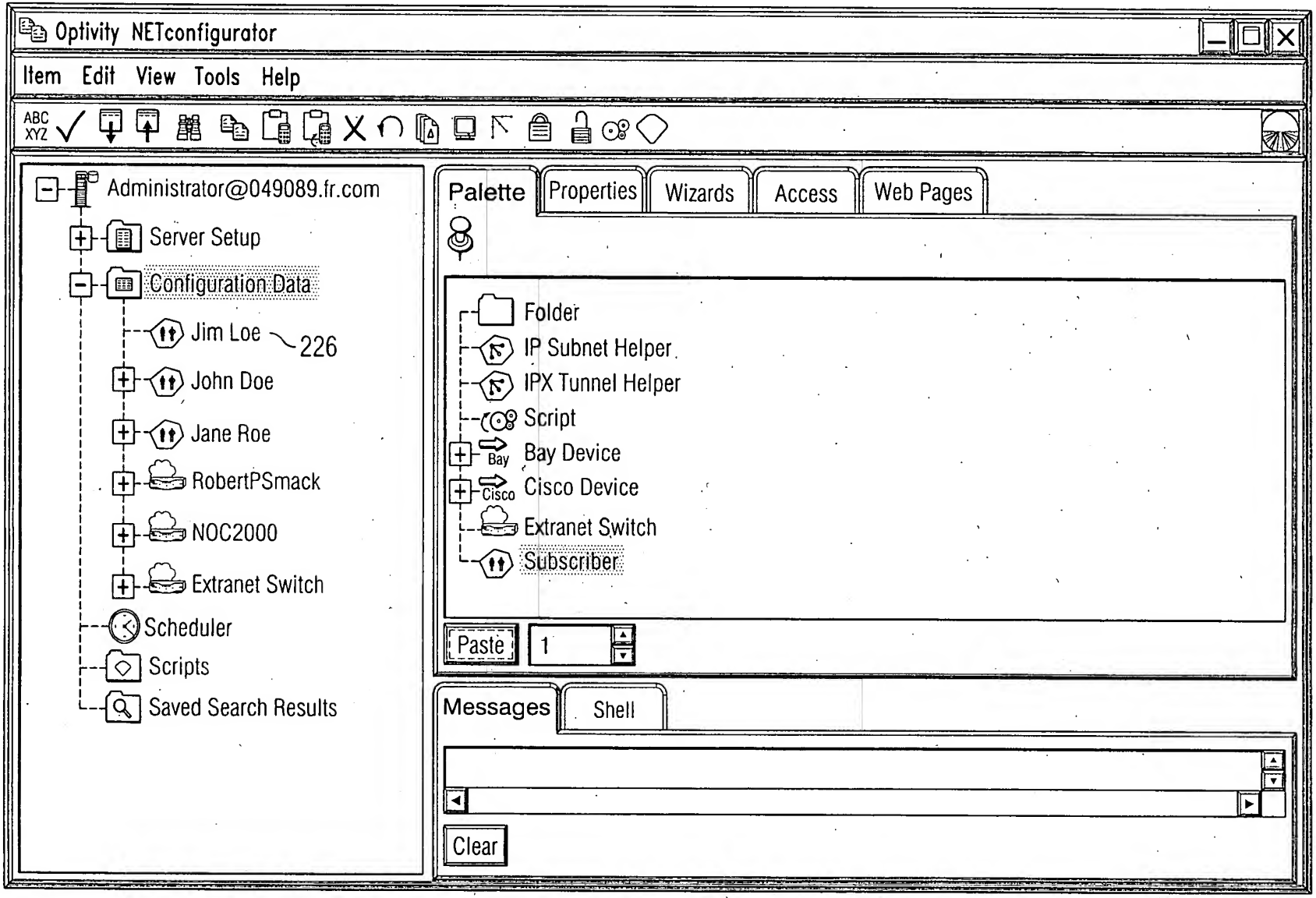

Optivity NETconfigurator
Item Edit View Tools Help
ABC XYZ
Administrator@049089.fr.com
Server Setup
Configuration Data
Jim Loe
226
John Doe
Jane Roe
RobertPSmack
NOC2000
Extranet Switch
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
Folder
IP Subnet Helper
IPX Tunnel Helper
Script
Bay
Bay Device
Cisco
Cisco Device
Extranet Switch
Subscriber
Paste
1
Messages
Shell
Clear

FIG. 23

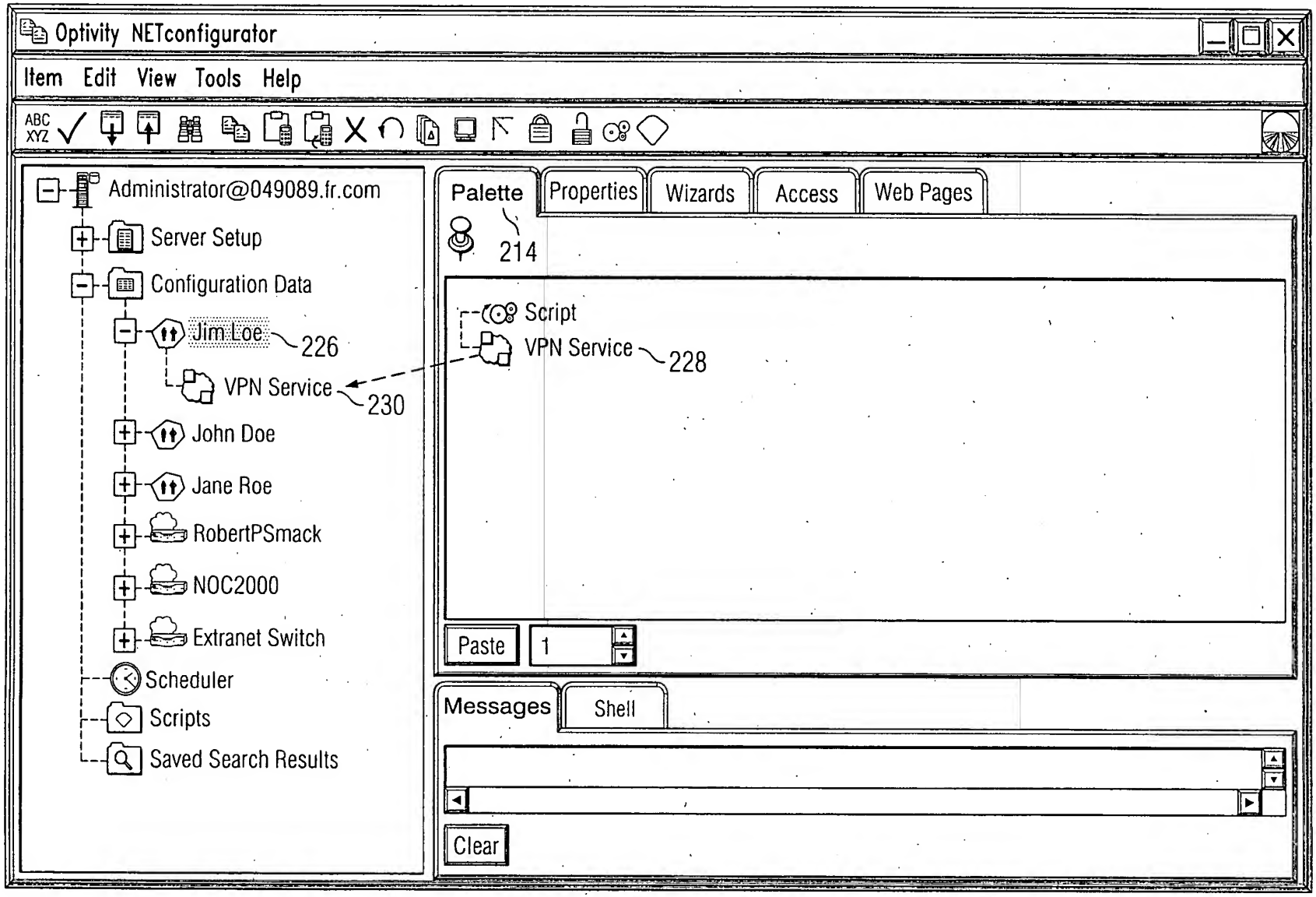

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
Jim Loe
226
VPN Service
230
John Doe
Jane Roe
RobertPSmack
NOC2000
Extranet Switch
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
214
Script
VPN Service
228
Paste
1
Messages
Shell
Clear

FIG. 24

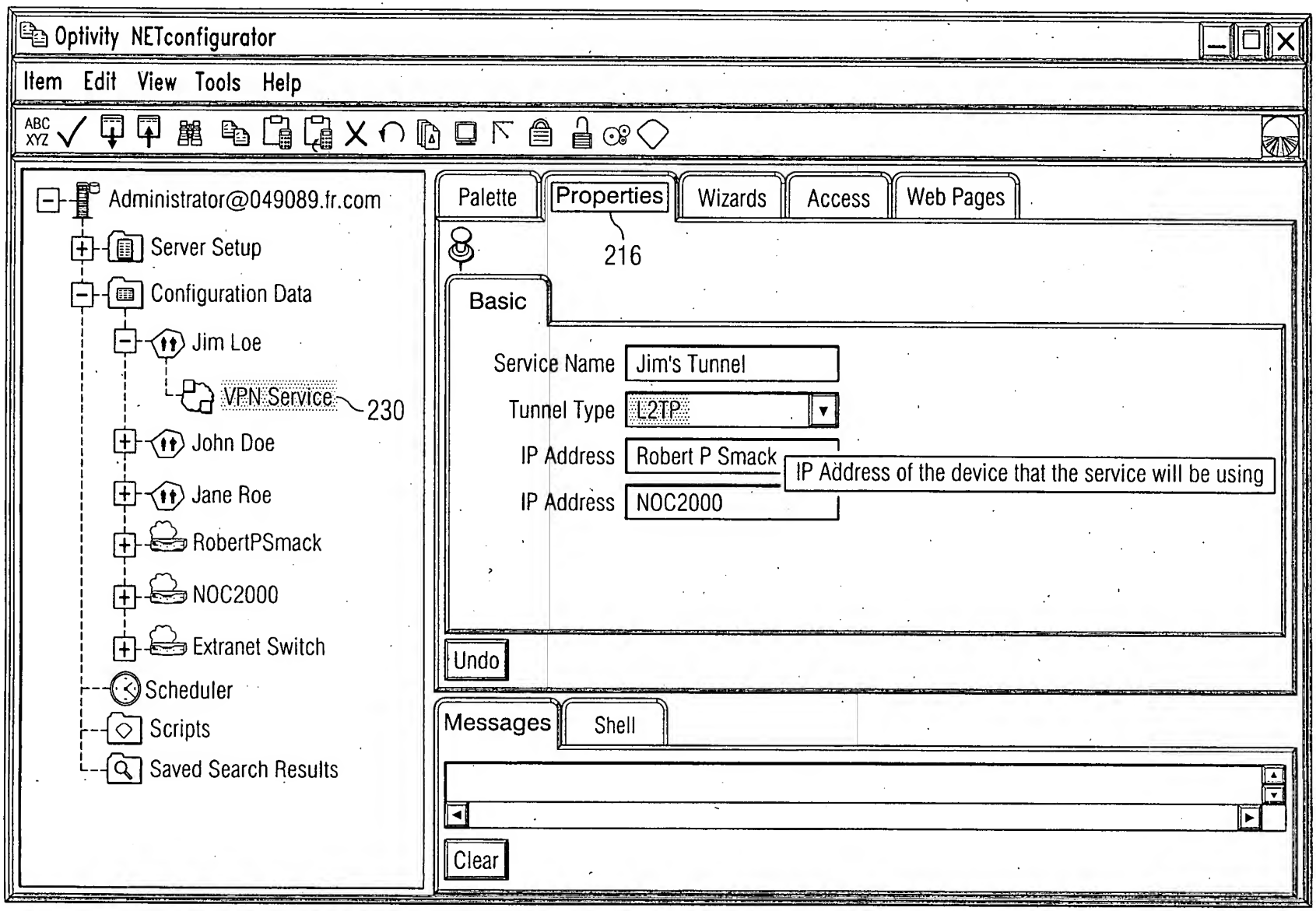

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
Jim Loe
VPN Service
230
John Doe
Jane Roe
RobertPSmack
NOC2000
Extranet Switch
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
216
Basic
Service Name
Jim's Tunnel
Tunnel Type
L2TP
IP Address
Robert P Smack
IP Address of the device that the service will be using
IP Address
NOC2000
Undo
Messages
Shell
Clear

FIG. 25

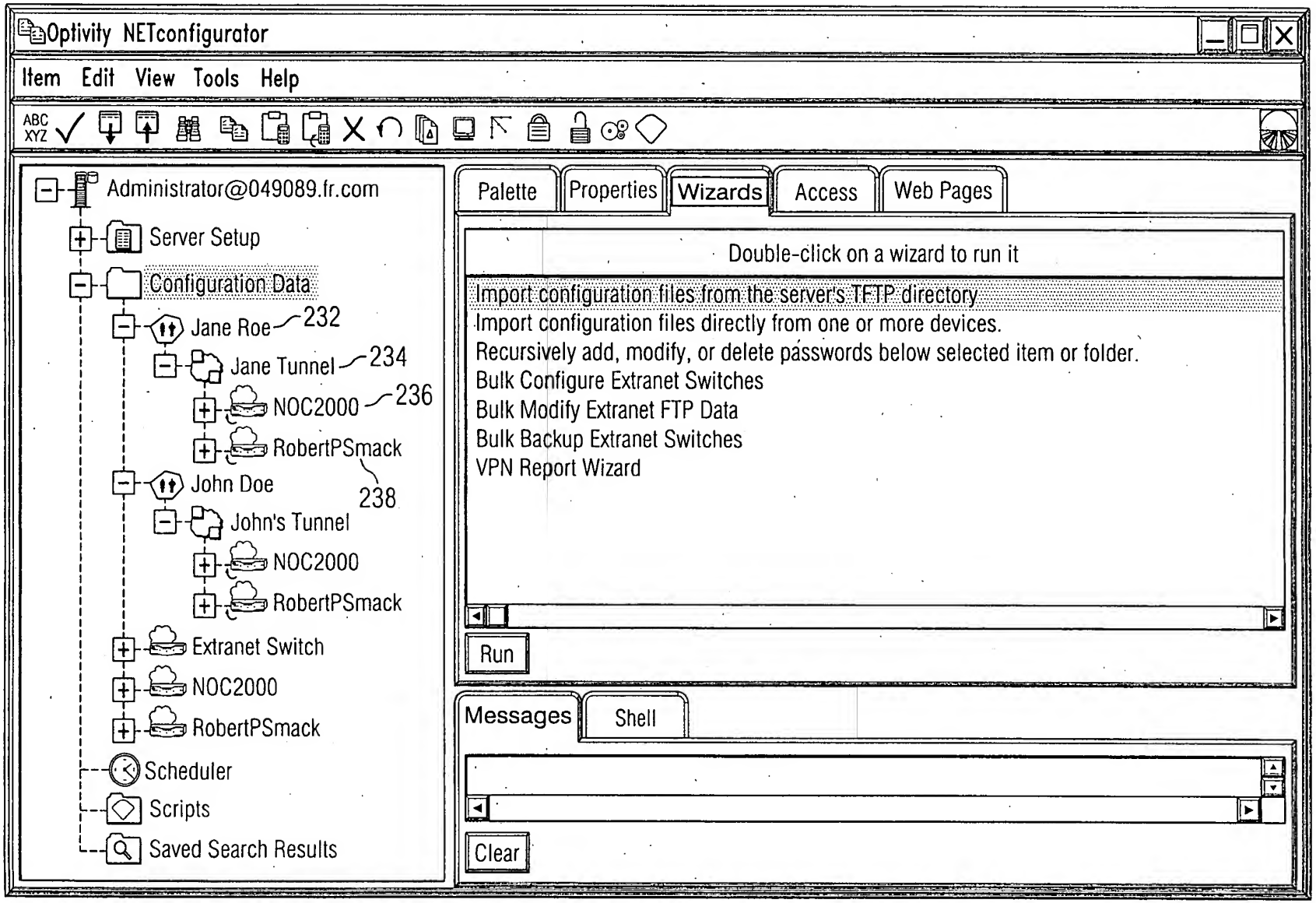

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
Jane Roe
232
Jane Tunnel
234
NOC2000
236
RobertPSmack
John Doe
238
John's Tunnel
NOC2000
RobertPSmack
Extranet Switch
NOC2000
RobertPSmack
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
Double-click on a wizard to run it
Import configuration files from the server's TFTP directory
Import configuration files directly from one or more devices.
Recursively add, modify, or delete passwords below selected item or folder.
Bulk Configure Extranet Switches
Bulk Modify Extranet FTP Data
Bulk Backup Extranet Switches
VPN Report Wizard
Run
Messages
Shell
Clear

FIG. 26

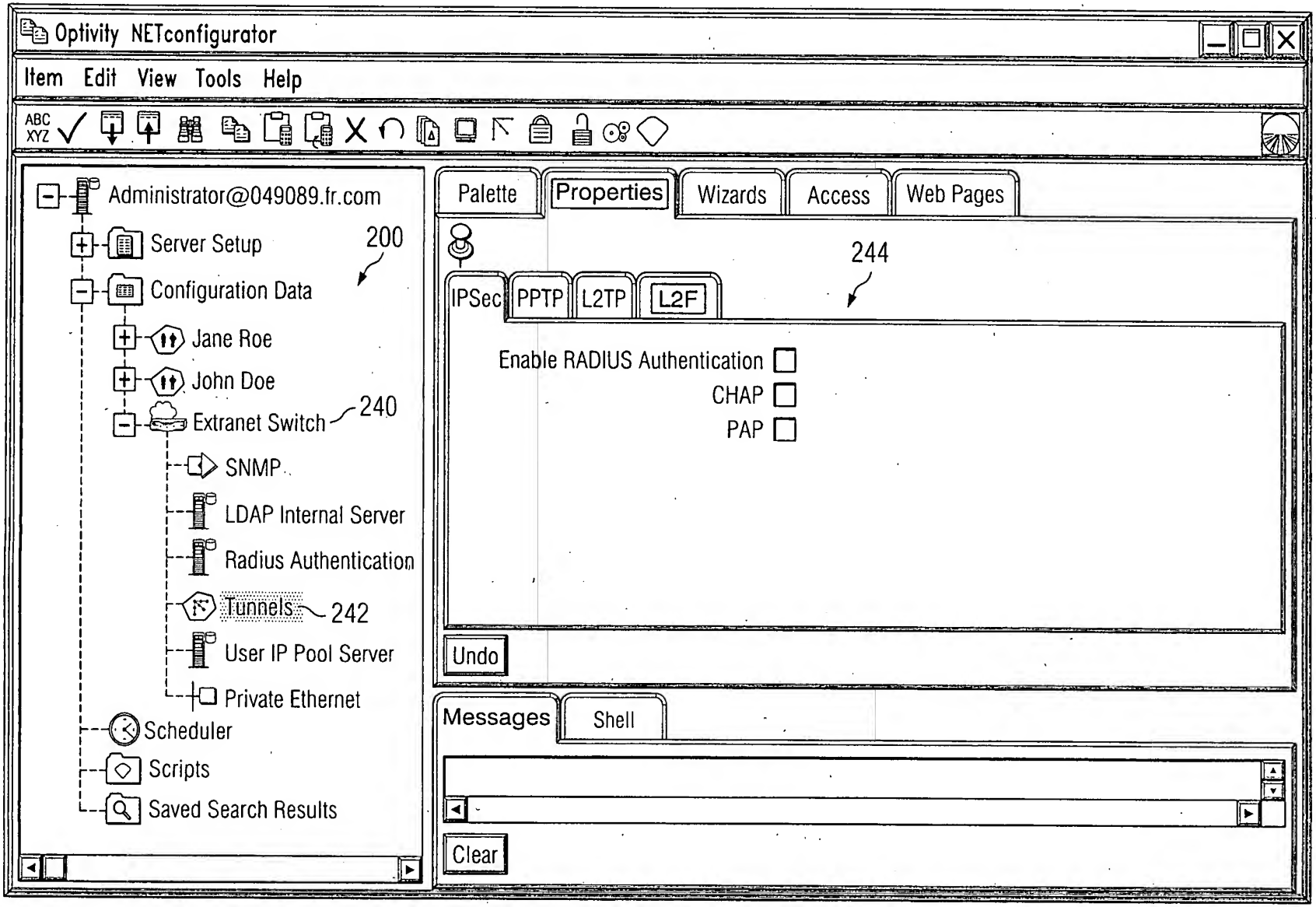

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
200
Configuration Data
Jane Roe
John Doe
Extranet Switch
240
SNMP
LDAP Internal Server
Radius Authentication
Tunnels
242
User IP Pool Server
Private Ethernet
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
244
IPSec
PPTP
L2TP
L2F
Enable RADIUS Authentication
CHAP
PAP
Undo
Messages
Shell
Clear

FIG. 27

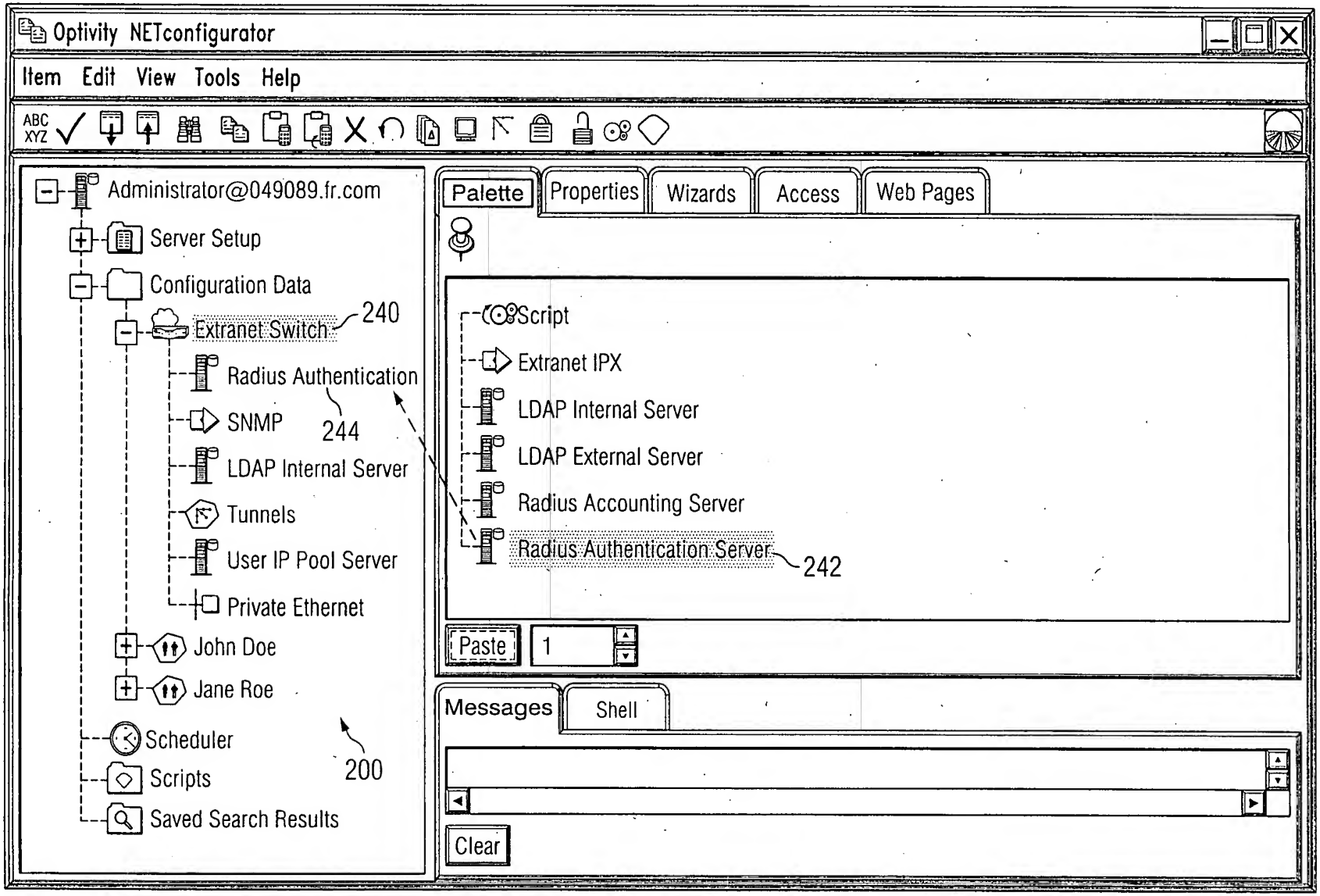

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
Extranet Switch
240
Radius Authentication
SNMP
244
LDAP Internal Server
Tunnels
User IP Pool Server
Private Ethernet
John Doe
Jane Roe
Scheduler
Scripts
Saved Search Results
200
Palette
Properties
Wizards
Access
Web Pages
Script
Extranet IPX
LDAP Internal Server
LDAP External Server
Radius Accounting Server
Radius Authentication Server
242
Paste
1
Messages
Shell
Clear

FIG. 28

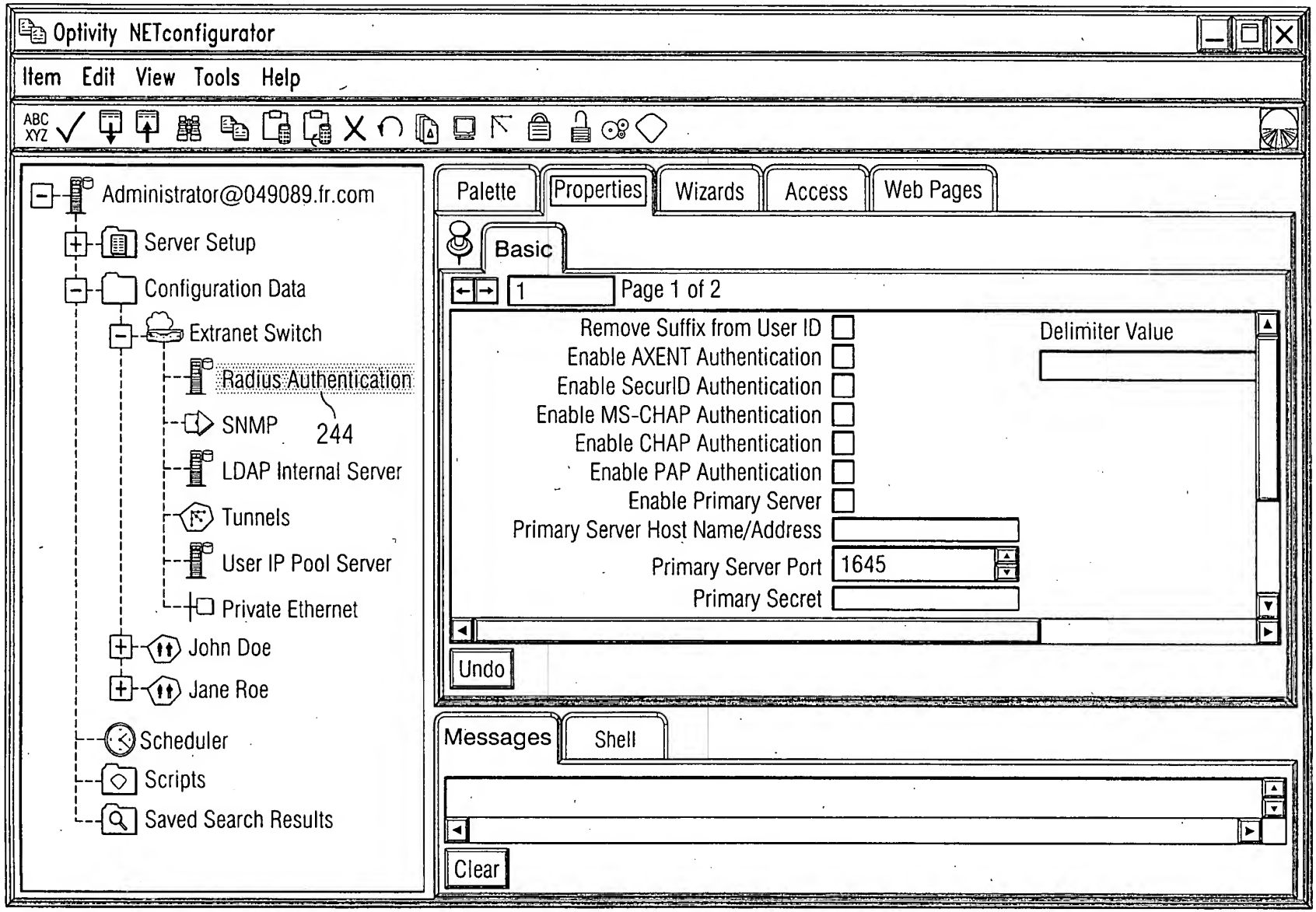

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
Extranet Switch
Radius Authentication
SNMP
244
LDAP Internal Server
Tunnels
User IP Pool Server
Private Ethernet
John Doe
Jane Roe
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
Basic
1
Page 1 of 2
Remove Suffix from User ID
Enable AXENT Authentication
Enable SecurID Authentication
Enable MS-CHAP Authentication
Enable CHAP Authentication
Enable PAP Authentication
Enable Primary Server
Primary Server Host Name/Address
Primary Server Port
1645
Primary Secret
Delimiter Value
Undo
Messages
Shell
Clear

FIG. 29

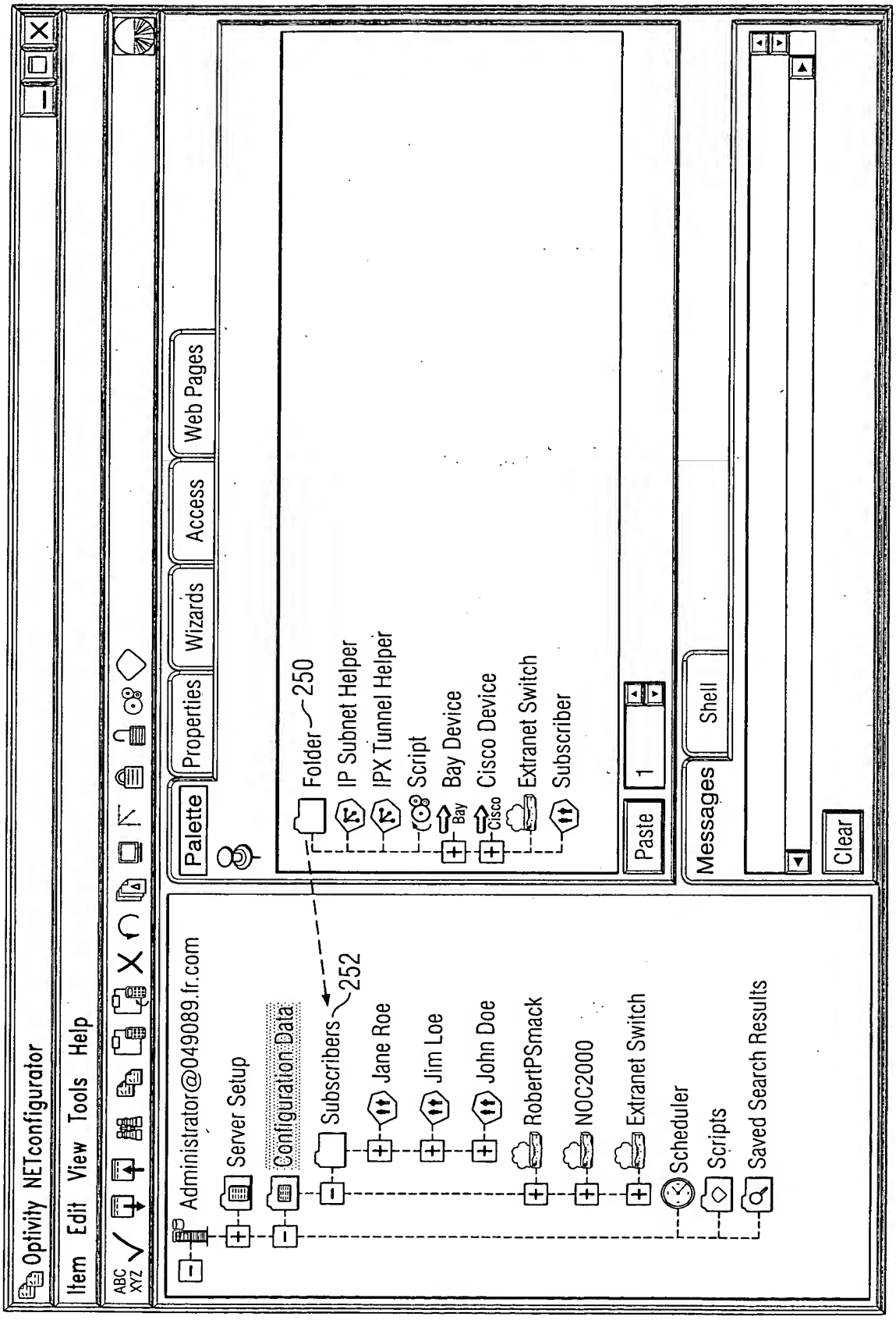

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
Subscribers
252
Jane Roe
Jim Loe
John Doe
RobertPSmack
NOC2000
Extranet Switch
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
Folder
250
IP Subnet Helper
IPX Tunnel Helper
Script
Bay Device
Cisco Device
Extranet Switch
Subscriber
Paste
1
Messages
Shell
Clear

FIG. 30

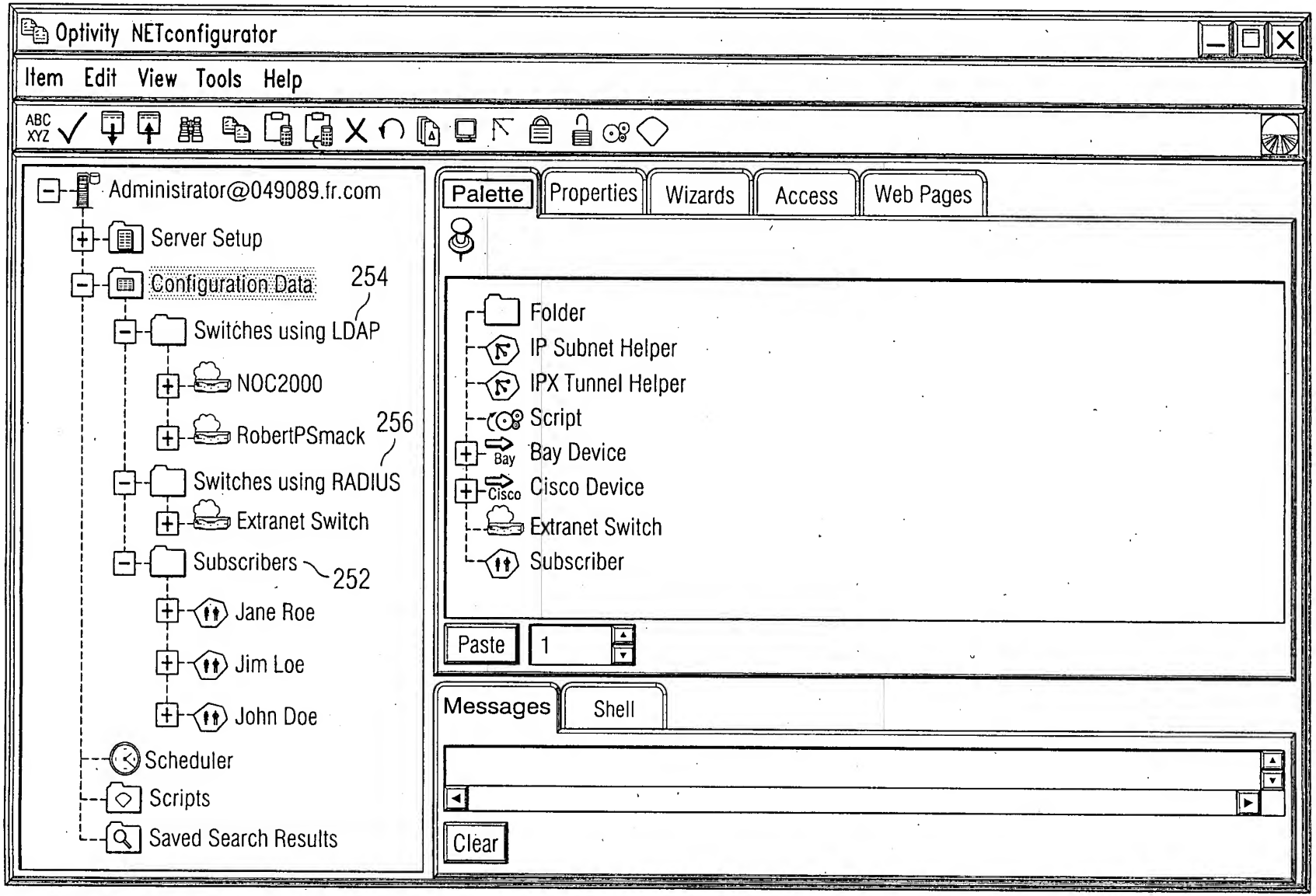

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@049089.fr.com
Server Setup
Configuration Data
254
Switches using LDAP
NOC2000
RobertPSmack
256
Switches using RADIUS
Extranet Switch
Subscribers
252
Jane Roe
Jim Loe
John Doe
Scheduler
Scripts
Saved Search Results
Palette
Properties
Wizards
Access
Web Pages
Folder
IP Subnet Helper
IPX Tunnel Helper
Script
Bay Device
Cisco Device
Extranet Switch
Subscriber
Paste
1
Messages
Shell
Clear

FIG. 31

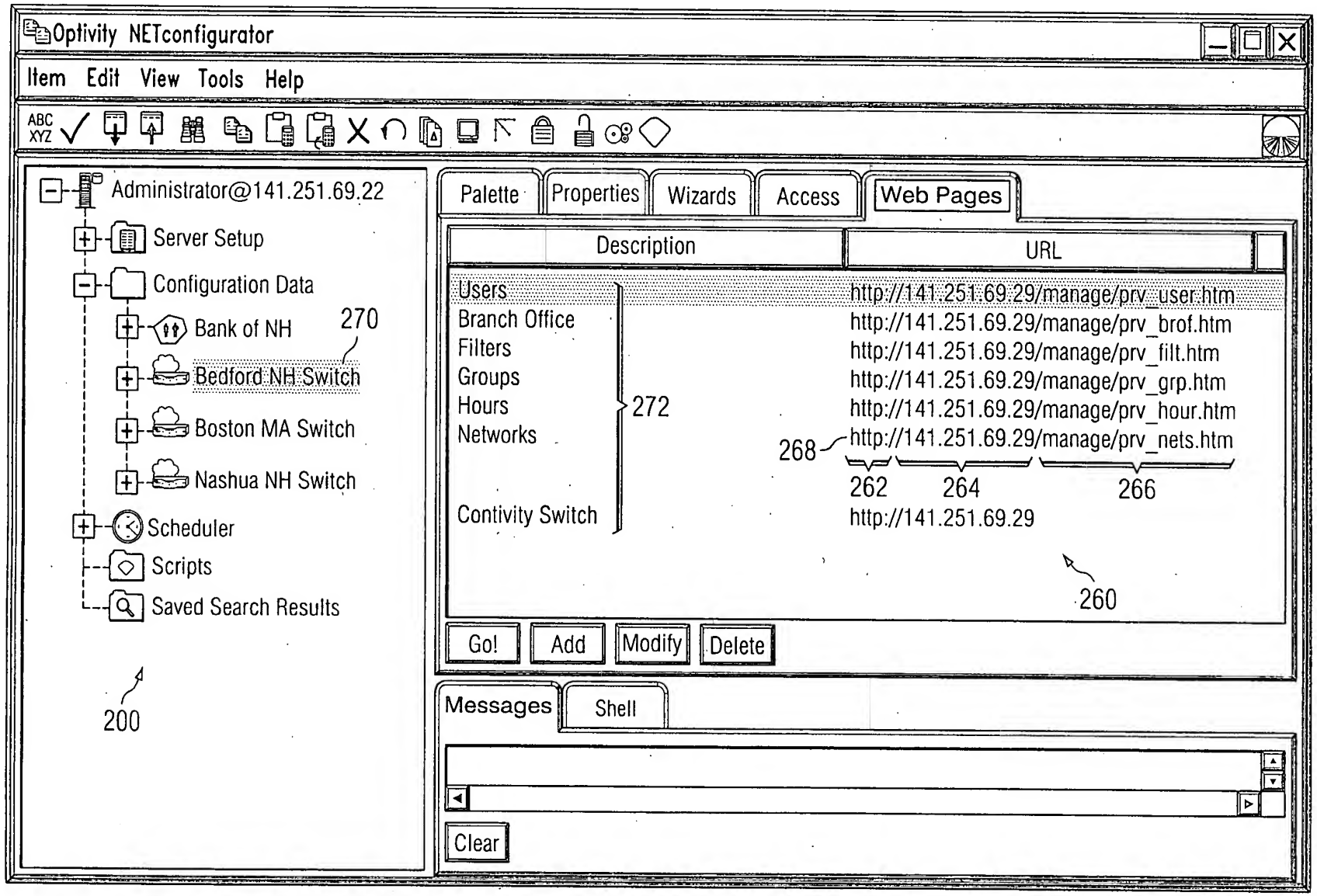

Optivity NETconfigurator
Item Edit View Tools Help
Administrator@141.251.69.22
Server Setup
Configuration Data
Bank of NH
Bedford NH Switch
Boston MA Switch
Nashua NH Switch
Scheduler
Scripts
Saved Search Results
270
200
Palette
Properties
Wizards
Access
Web Pages
Description
URL
Users
Branch Office
Filters
Groups
Hours
Networks
Contivity Switch
272
http://141.251.69.29/manage/prv_user.htm
http://141.251.69.29/manage/prv_brof.htm
http://141.251.69.29/manage/prv_filt.htm
http://141.251.69.29/manage/prv_grp.htm
http://141.251.69.29/manage/prv_hour.htm
http://141.251.69.29/manage/prv_nets.htm
http://141.251.69.29
268
262
264
266
260
Go!
Add
Modify
Delete
Messages
Shell
Clear

FIG. 32

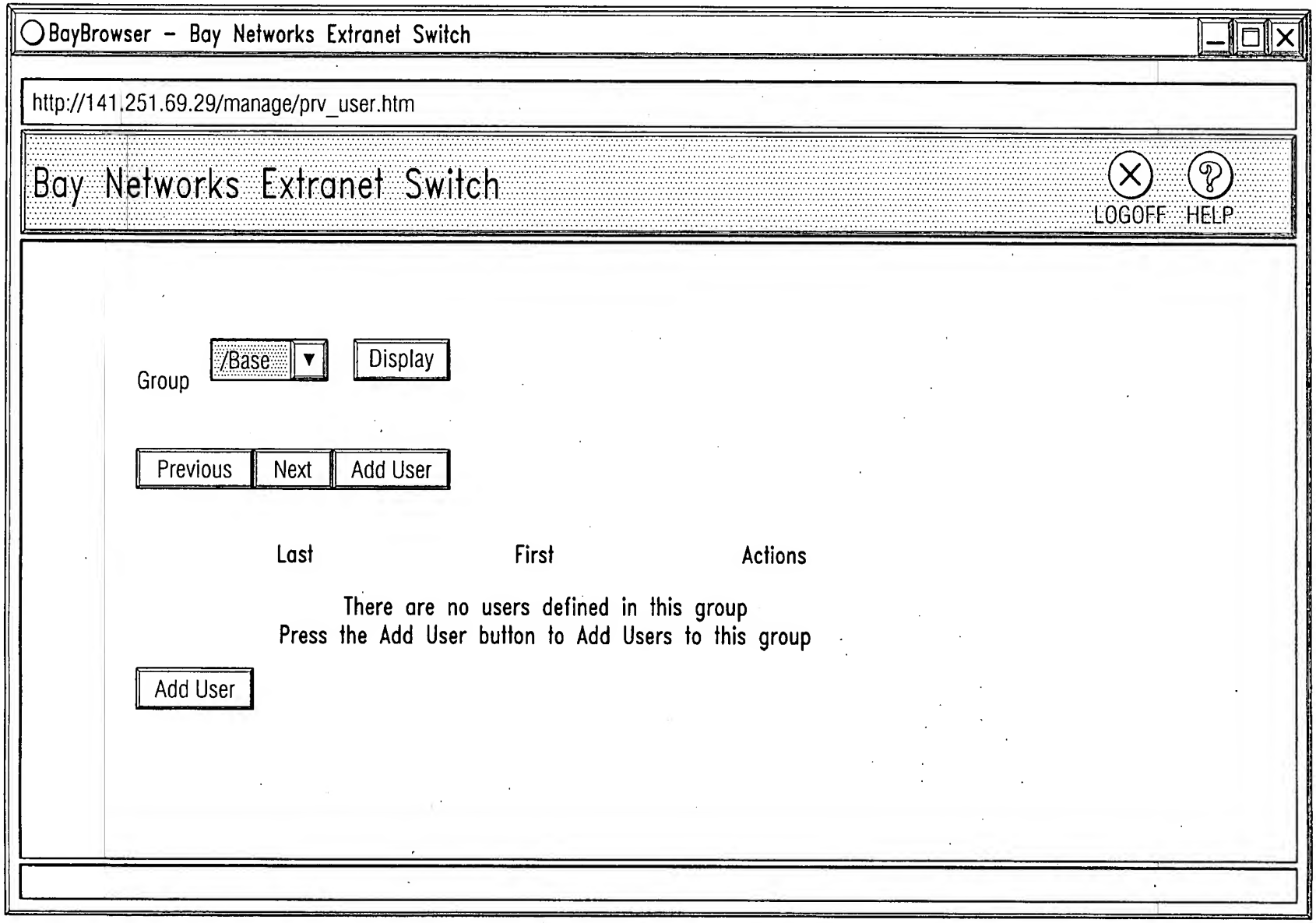

BayBrowser - Bay Networks Extranet Switch
http://141.251.69.29/manage/prv_user.htm
Bay Networks Extranet Switch
LOGOFF
HELP
Group
/Base
Display
Previous
Next
Add User
Last
First
Actions
There are no users defined in this group
Press the Add User button to Add Users to this group
Add User

FIG. 33

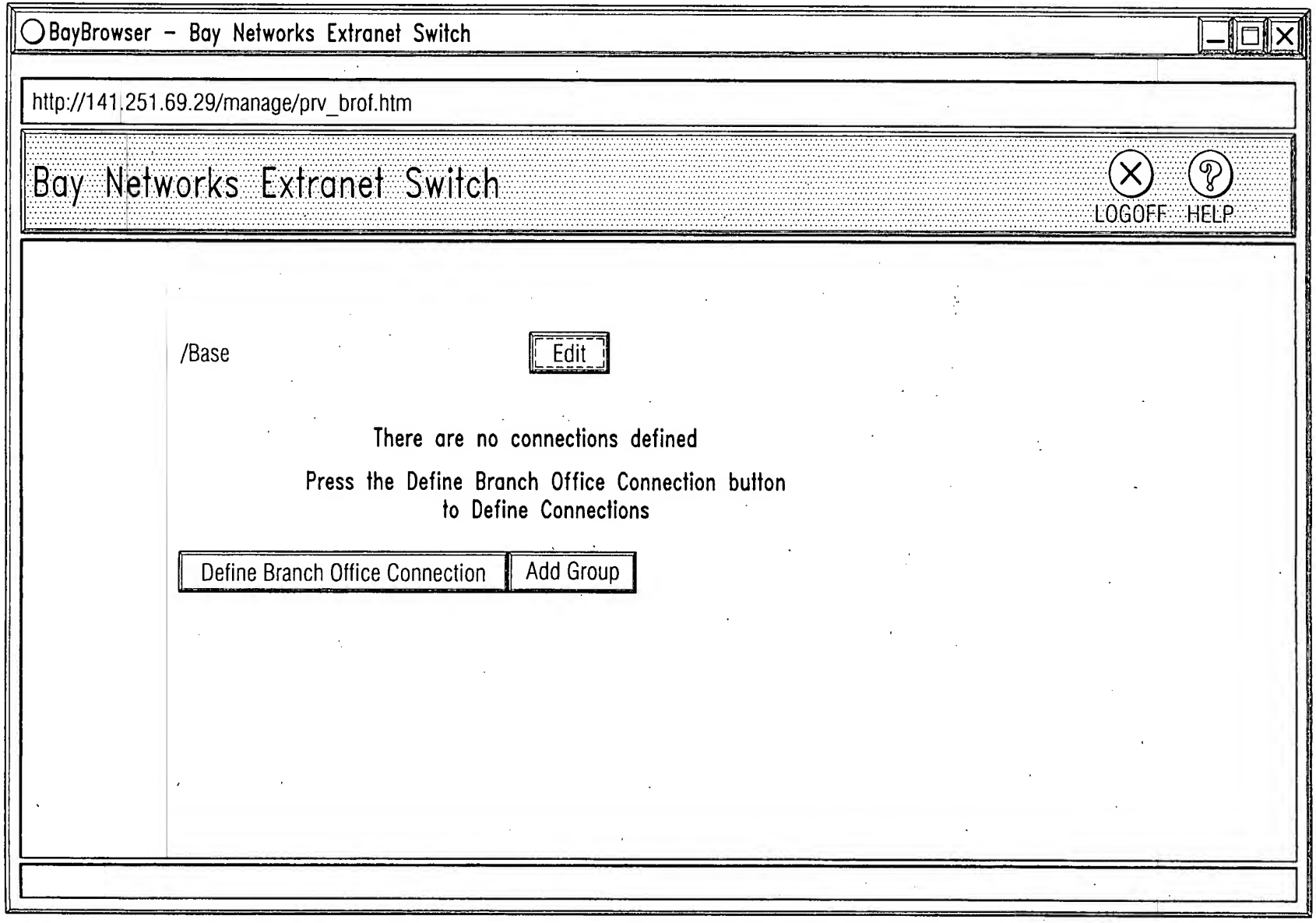

BayBrowser - Bay Networks Extranet Switch
http://141.251.69.29/manage/prv_brof.htm
Bay Networks Extranet Switch
LOGOFF
HELP
/Base
Edit
There are no connections defined
Press the Define Branch Office Connection button
to Define Connections
Define Branch Office Connection
Add Group

FIG. 34

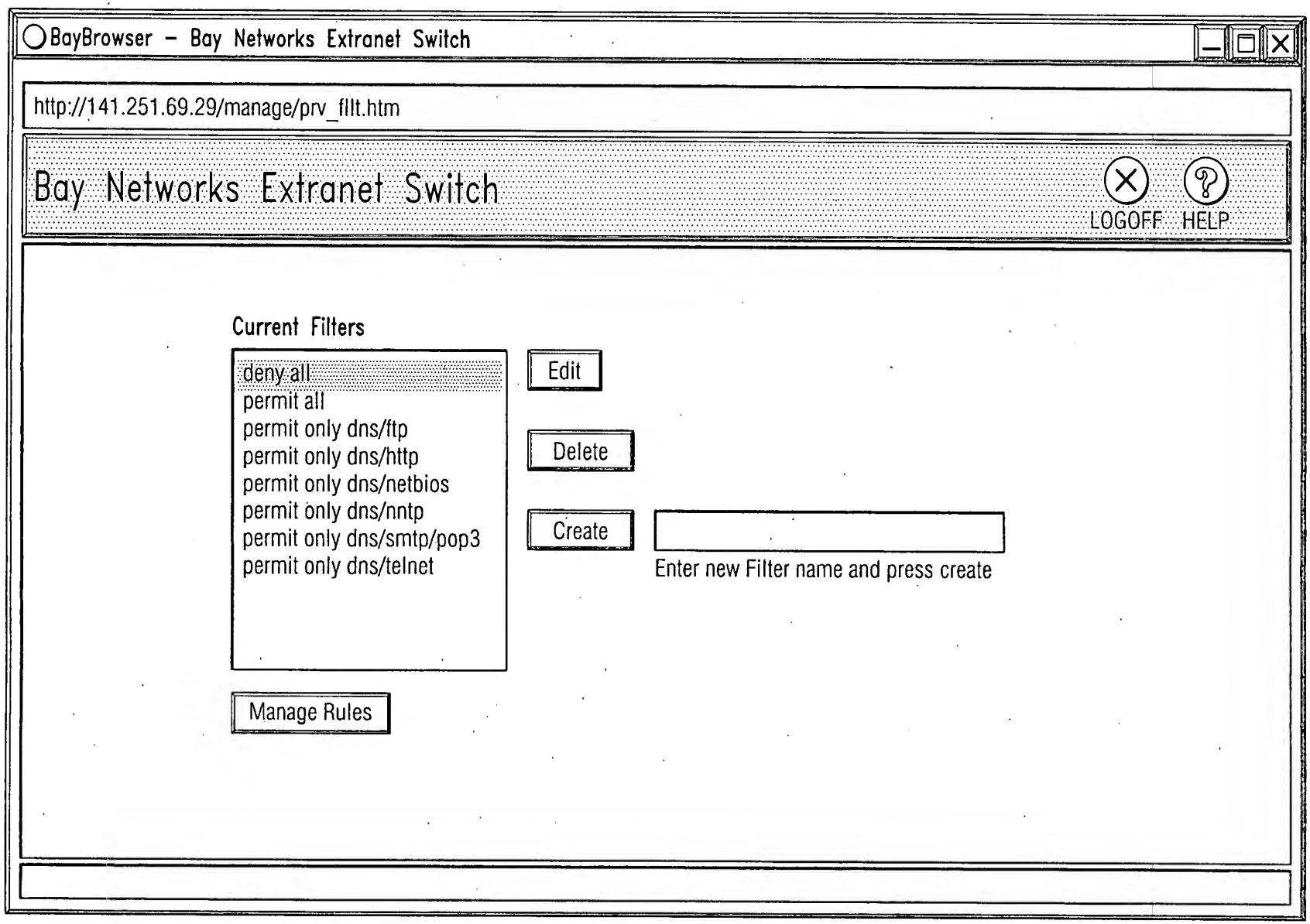

BayBrowser – Bay Networks Extranet Switch
http://141.251.69.29/manage/prv_fllt.htm
Bay Networks Extranet Switch
LOGOFF
HELP
Current Filters
deny all
permit all
permit only dns/ftp
permit only dns/http
permit only dns/netbios
permit only dns/nntp
permit only dns/smtp/pop3
permit only dns/telnet
Edit
Delete
Create
Enter new Filter name and press create
Manage Rules

FIG. 35

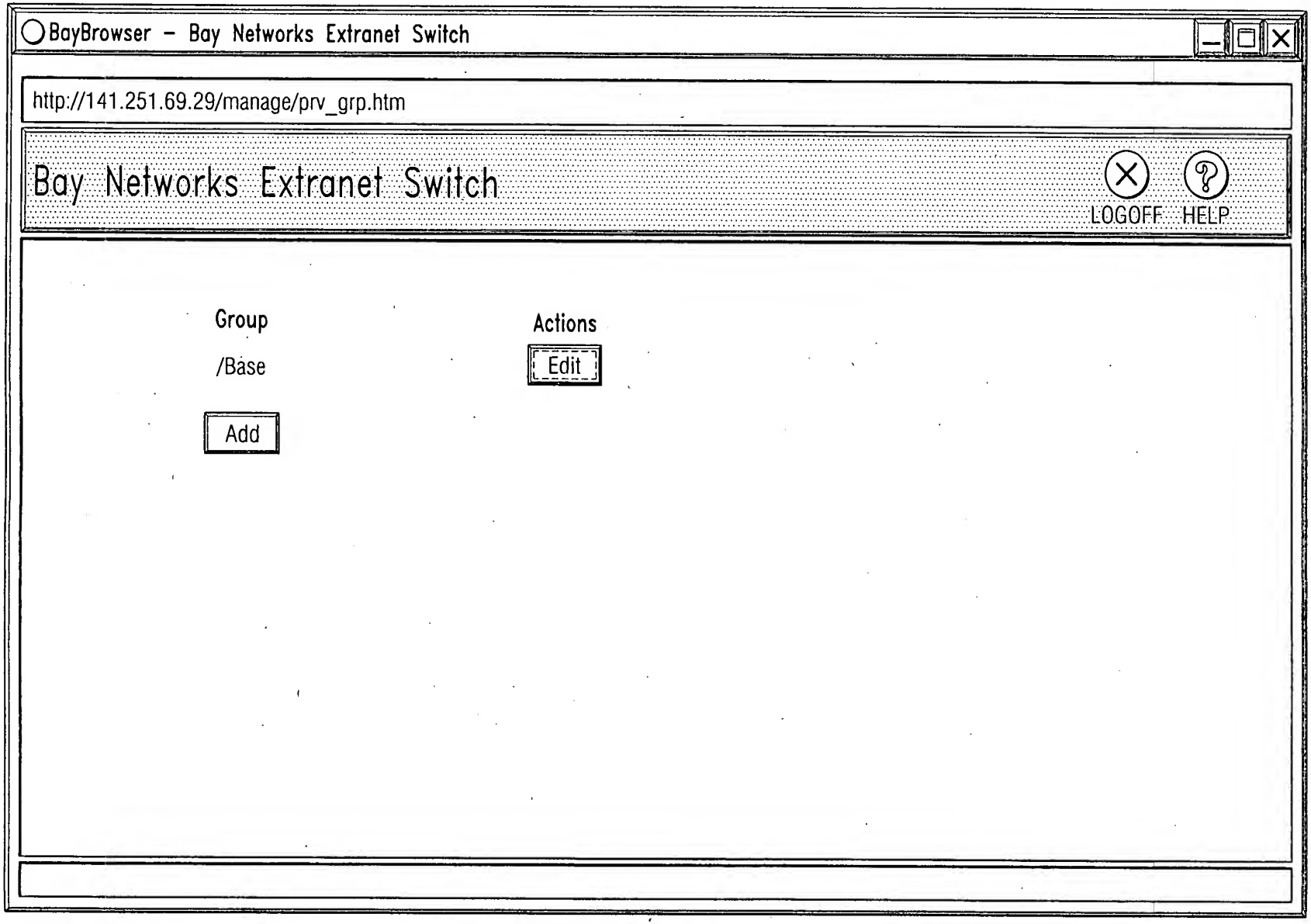

BayBrowser - Bay Networks Extranet Switch
http://141.251.69.29/manage/prv_grp.htm
Bay Networks Extranet Switch
LOGOFF
HELP
Group
/Base
Actions
Edit
Add

FIG. 36

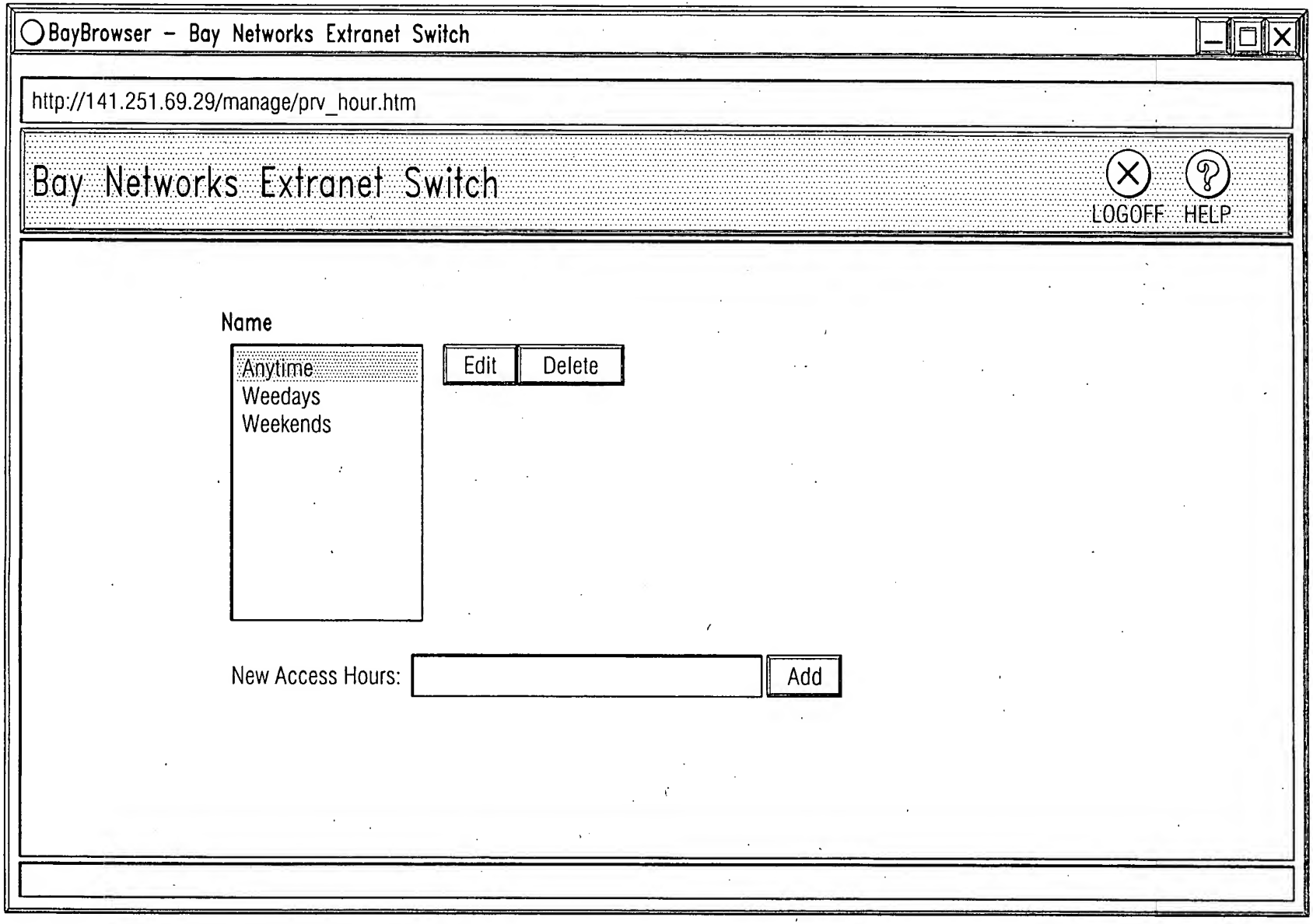

BayBrowser - Bay Networks Extranet Switch
http://141.251.69.29/manage/prv_hour.htm
Bay Networks Extranet Switch
LOGOFF
HELP
Name
Anytime
Weedays
Weekends
Edit
Delete
New Access Hours:
Add

FIG. 37

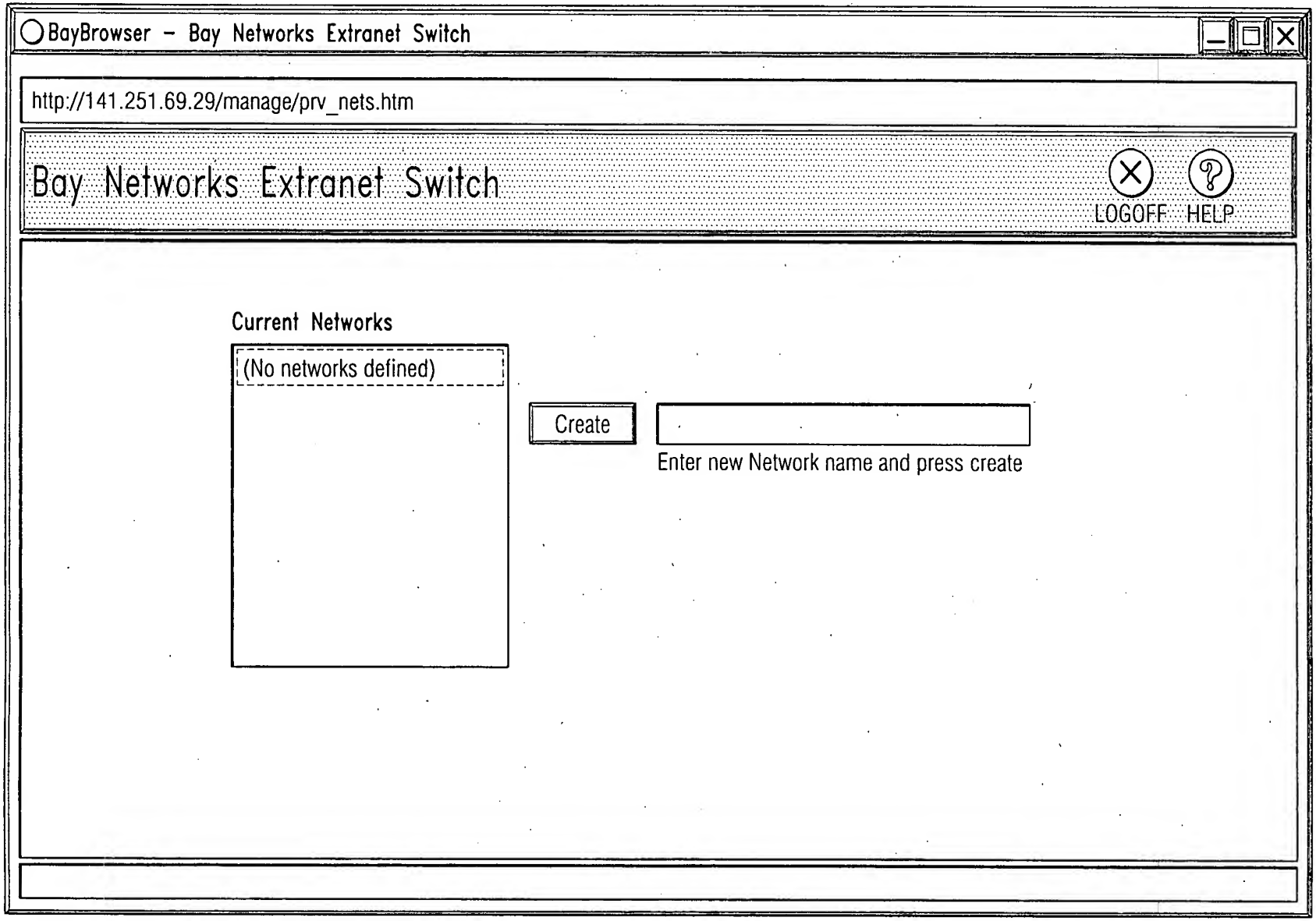

BayBrowser - Bay Networks Extranet Switch
http://141.251.69.29/manage/prv_nets.htm
Bay Networks Extranet Switch
LOGOFF
HELP
Current Networks
(No networks defined)
Create
Enter new Network name and press create

FIG. 38

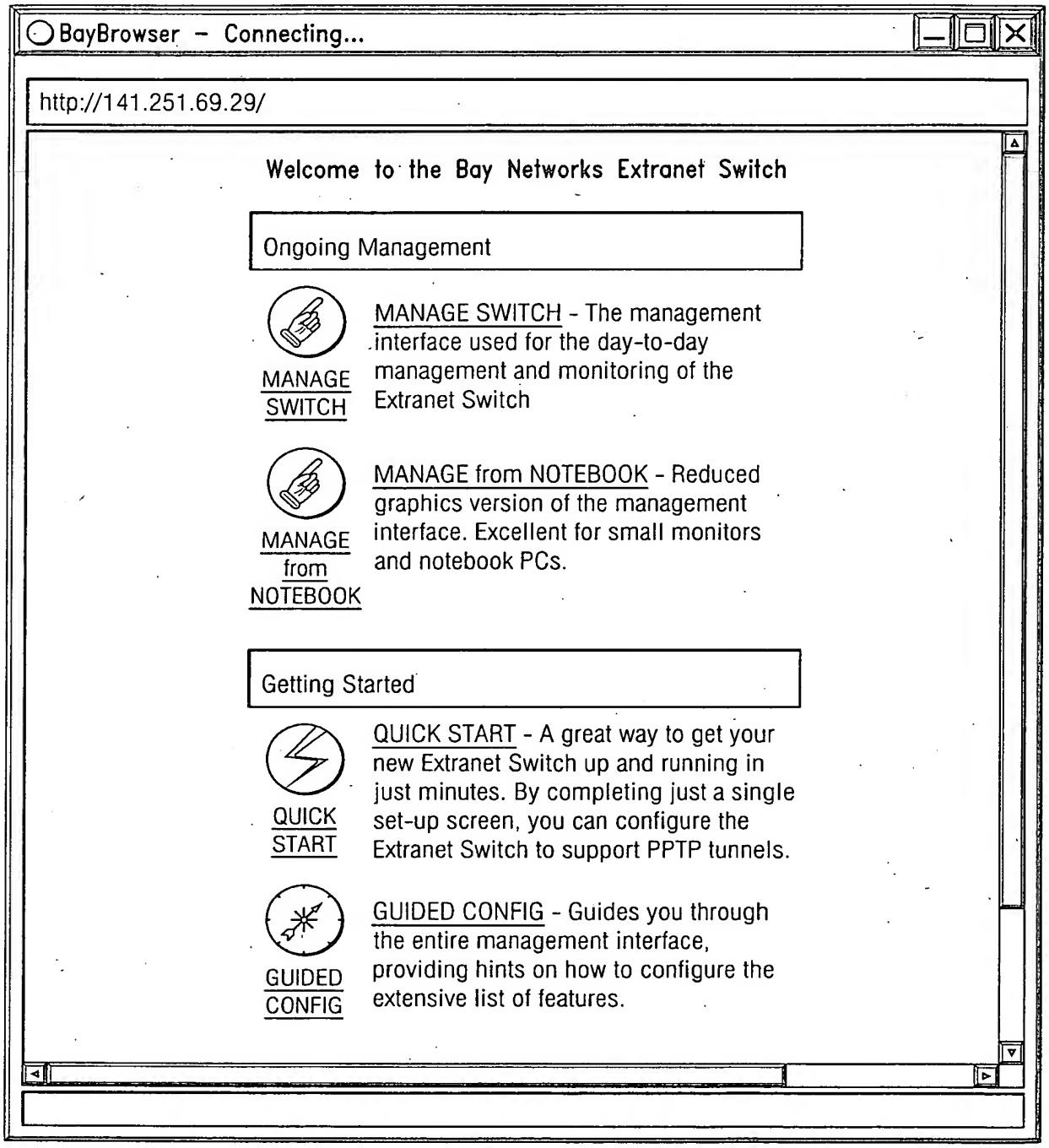

BayBrowser - Connecting...
http://141.251.69.29/
Welcome to the Bay Networks Extranet Switch
Ongoing Management
MANAGE SWITCH
MANAGE SWITCH - The management interface used for the day-to-day management and monitoring of the Extranet Switch
MANAGE from NOTEBOOK
MANAGE from NOTEBOOK - Reduced graphics version of the management interface. Excellent for small monitors and notebook PCs.
Getting Started
QUICK START
QUICK START - A great way to get your new Extranet Switch up and running in just minutes. By completing just a single set-up screen, you can configure the Extranet Switch to support PPTP tunnels.
GUIDED CONFIG
GUIDED CONFIG - Guides you through the entire management interface, providing hints on how to configure the extensive list of features.

FIG. 39